Food Packer

Canning Glasspacking Freezing

October 15, 1953

1953 Buyers' Guide & Reference Issue

1953 BUYERS' GUIDE & REFERENCE ISSUE

Special Feature:

Plant layout and equipment needed for processing 11 important products

A general guide to those in the industry who want to improve or enlarge their plants, add additional processing facilities, or completely equip a new building. Prepared under supervision of W. A. Gould. Page 21.

• • •

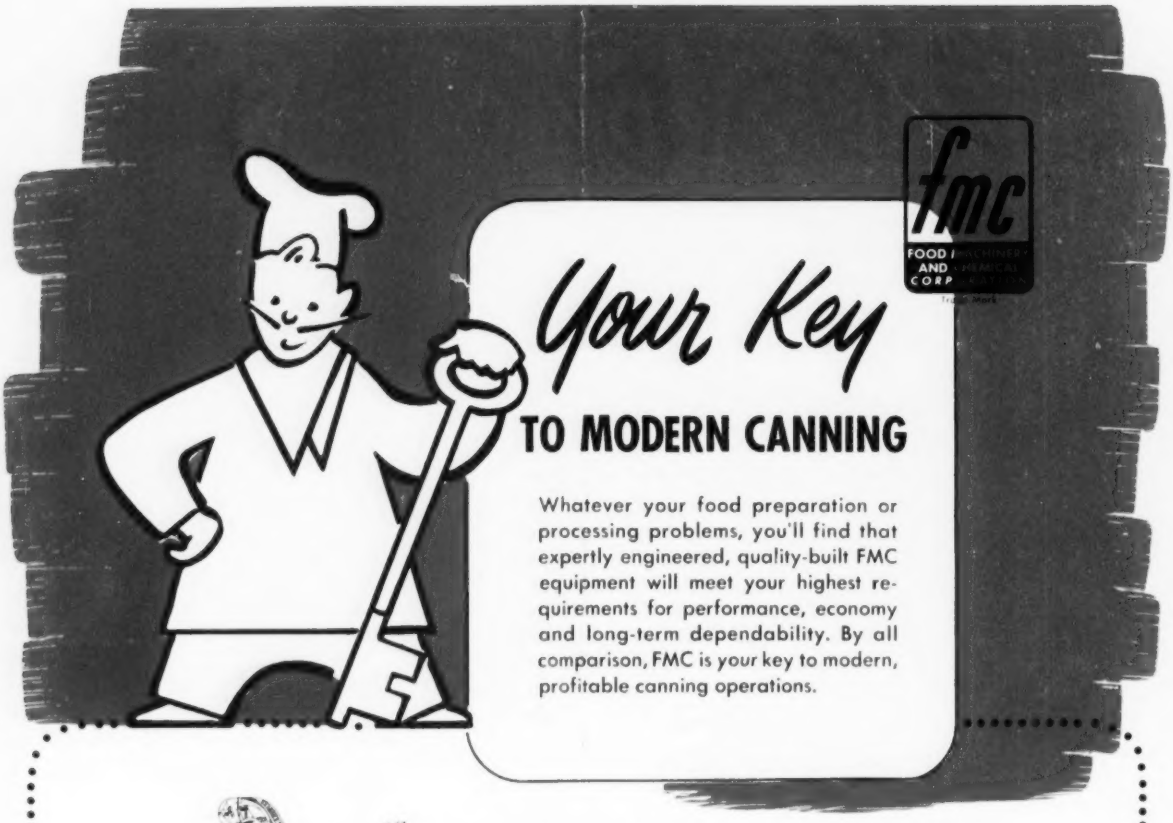
Other features:

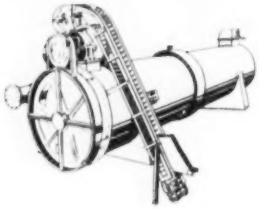
Buyers' Guide to processing equipment, supplies, & other industry materials. Page 42.

Officers of state & regional canning and food processing associations. Page 38.

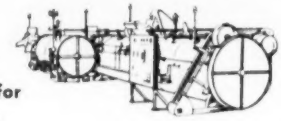
A Vance Publication

The National Magazine of Production and Management

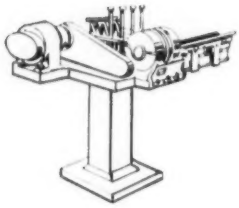




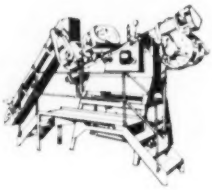
Continuous freezer for canned food products.



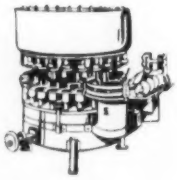
Sterilizing equipment for canned food products.



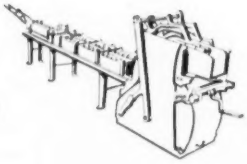
Corn, pea and tomato preparation and processing equipment.



Fruit and vegetable preparation lines.



High speed, accurate fillers for cans, jars, and cartons.



Can handling, labeling and casing equipment.

Key to food equipment

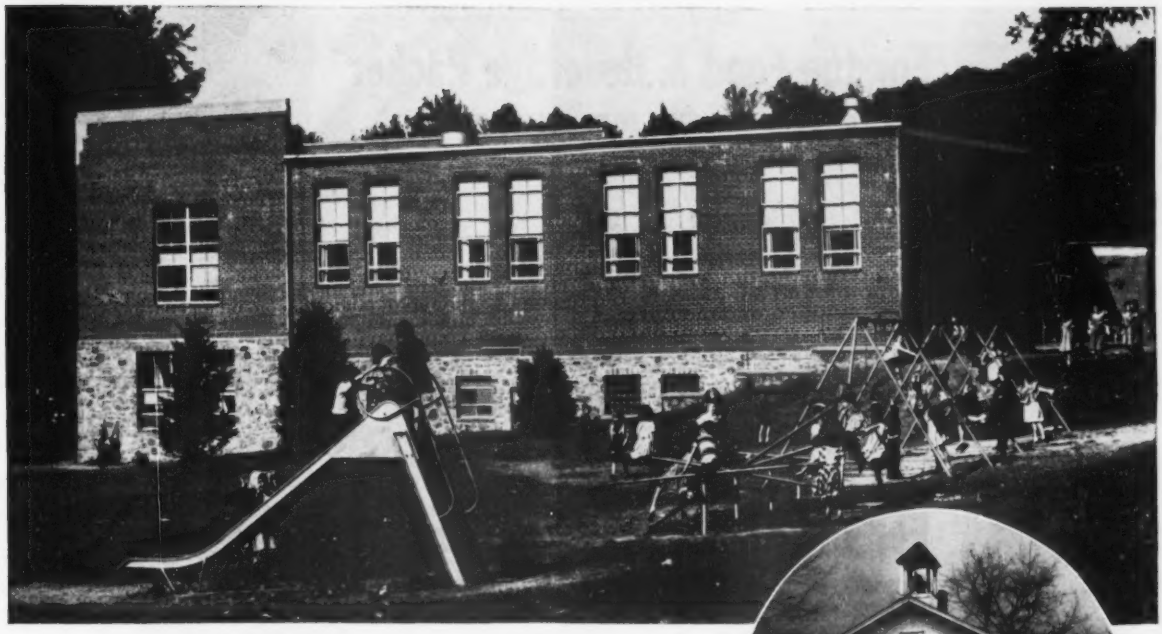
fmc

FOOD MACHINERY AND CHEMICAL CORPORATION

Canning Machinery Division

General Sales Offices:

WESTERN: SAN JOSE 6, CALIFORNIA **EASTERN:** HOOPESTON, ILLINOIS



The Old School House was "OK" but Success Lies Ahead for Those Who Plan Their Future

HEEKIN FOOD RESEARCH

HEEKIN FOOD ENGINEERING

HEEKIN'S FIFTY-TWO YEARS of PERSONAL SERVICE

Heekin Personal Service deals with Tomorrow's Problems . . .

EVERYONE of us has tender memories of the old country school house—but we wouldn't send our children to one today. It is out-moded—can't compete with today's ideas or demands. That's true in the canning industry. Out-moded plants must be modernized to reduce cost—reduce waste—to get every single penny out of the crop and into the can. Heekin experts are around when you want them—always available to sit down and talk over your problems. Why not talk over your next can contract with Heekin?

1901 • 1953

Heekin Cans

52 YEARS OF SERVICE

THE HEEKIN CAN CO., CINCINNATI 2, OHIO

PLANTS AT CINCINNATI & NORWOOD, OHIO; CHESTNUT HILL, TENNESSEE; SPRINGDALE, ARKANSAS

For the Food & Beverage Packer

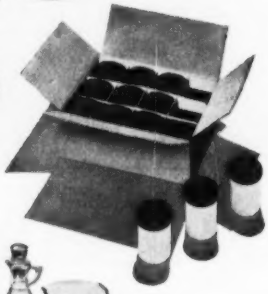
GLASS CONTAINERS WITH SHELF APPEAL

For the Cosmetic Packer

BEAUTY WITHOUT TO SELL BEAUTY WITHIN

For the Pharmaceutical Trade

GLISTENING WHITE GOODWILL BUILDERS



For the Premium Buyer

GIVE HER WHAT SHE BUYS

For Capping every Container

THEY PROTECT AND SELL

There's an H·A sales office and an H·A factory near you

HAZEL-ATLAS GLASS COMPANY, ***WHEELING, WEST VIRGINIA***

Food Packer

October 15, 1953

C. Melvin Carlson, Business Manager
Wilbert Schaal, Editor
Dolores Story, Associate Editor
Dr. W. A. Gould, Quality Control Editor
Robert Y. Kerr, Washington Editor
R. B. Lundahl, Advertising Production
Thornell Barnes, Circulation Manager
Elmer Olin, Ass't. Circulation Manager

Herbert A. Vance, Publisher
A. W. Boulton, Assistant to Publisher

Annual Buyers' Guide & Reference Issue

CONTENTS

Plant layout and equipment for processing 11 important crops ..... **Page 21**

A general guide to those in the industry who want to improve or enlarge their plants, add additional facilities, or completely equip a new building.

State and regional canning and food processing associations ..... **Page 38**

Names of distributors, suppliers, and other industry-supporting organizations.

Buyers' Guide to processing equipment, supplies, and other industry materials ..... **Page 42**

A list of manufacturers of materials that are used in canning, glasspacking, and freezing, and numbered for added convenience in using the special section on plant layout and equipment for processing 11 important crops.

Pack statistics on selected canned and frozen fruits and vegetables ..... **Page 78**

U. S. Food & Drug administration district offices and resident inspections stations ..... **Page 82**

Offices of the processed products standardization and inspection division (USDA) ..... **Page 84**

Plant food requirements of certain vegetable and fruit crops ..... **Page 96**

Average nitrogen, available phosphoric acid, and potash content of some commonly used fertilizer materials ..... **Page 97**

Name and location of the state agricultural experiment stations in the United States and its territories ..... **Page 97**

United States standards for grades of processed fruits and vegetables ..... **Page 98**

Vol. 34, No. 11 FOOD PACKER *(formerly Canning Age.)* Title registered in U. S. Patent Office.
Copyright, 1953, Vance Publishing Corporation.

Office of publication: 1309 N. Main St., Pontiac, Ill. Executive and editorial offices: 139 N. Clark St., Chicago 2, Ill.

Subscription rates: U. S. and Possessions, Canada, $3.00 per year; two years, $5.00; three years, $7.00; other countries, $10.00 per year, two years, $15.00. Single copy price, 25 cents.

New York Office: Randolph Stout, District Representative; Room 5622, Grand Central Terminal, 70 E. 45th St. Telephone: MUrray Hill 3-8333.

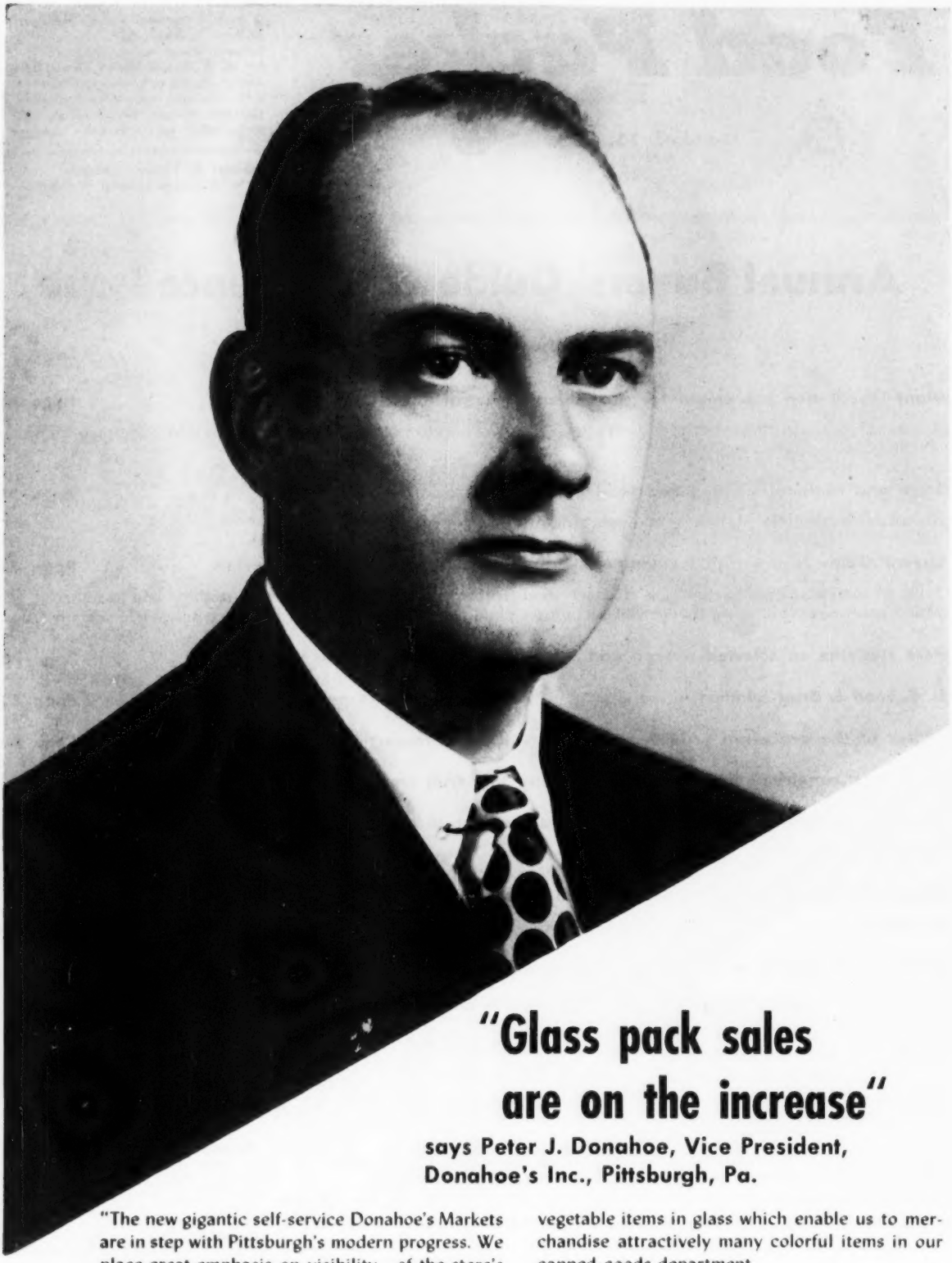
Entered as second class matter, August 2, 1952, at the Post Office, Pontiac, Illinois, under the Act of March 3, 1879. FOOD PACKER is published monthly except in October when published semi-monthly (including the Buyers' Guide and Reference Issue published in October) by Vance Publishing Corporation. Herbert A. Vance, President and Treasurer; A. A. Hood, Vice President; A. E. Monetti, Secretary. Also publishers of American Lumberman, Wood & Wood Products, and Home Maintenance & Improvement.

Events to Come

November 9-10. Wisconsin Canners Assn., 49th annual convention, Schroeder Hotel, Milwaukee.

December 3-4. Tri-State Packers Assn., 50th annual meeting, Haddon Hall, Atlantic City, N. J.

January 23-27, 1954. National Canners, National Food Brokers, Canning Machinery & Supplies Associations, annual convention, Atlantic City, N. J.



"Glass pack sales are on the increase"

says Peter J. Donahoe, Vice President, Donahoe's Inc., Pittsburgh, Pa.

"The new gigantic self-service Donahoe's Markets are in step with Pittsburgh's modern progress. We place great emphasis on visibility—of the store's shopping section, its interior, and the complete assortment of merchandise stocked on the shelves.

"Naturally, we place emphasis on foods in visible packages. We like, particularly, fruit and vegetable items in glass which enable us to merchandise attractively many colorful items in our canned-goods department.

"*Glass pack sales are on the increase.* We firmly believe there is a waiting need and consumer demand for many additional popular fruit and vegetable items in glass containers."

Leading retailers want more and more items in glass packs. Glass gives their shelves sparkling, colorful appeal . . . increases impulse sales in canned-goods departments.

Today's self-service selling demands a self-selling package—*GLASS!*

With the growth of self-service, packaging has become a more important sales tool than ever before.

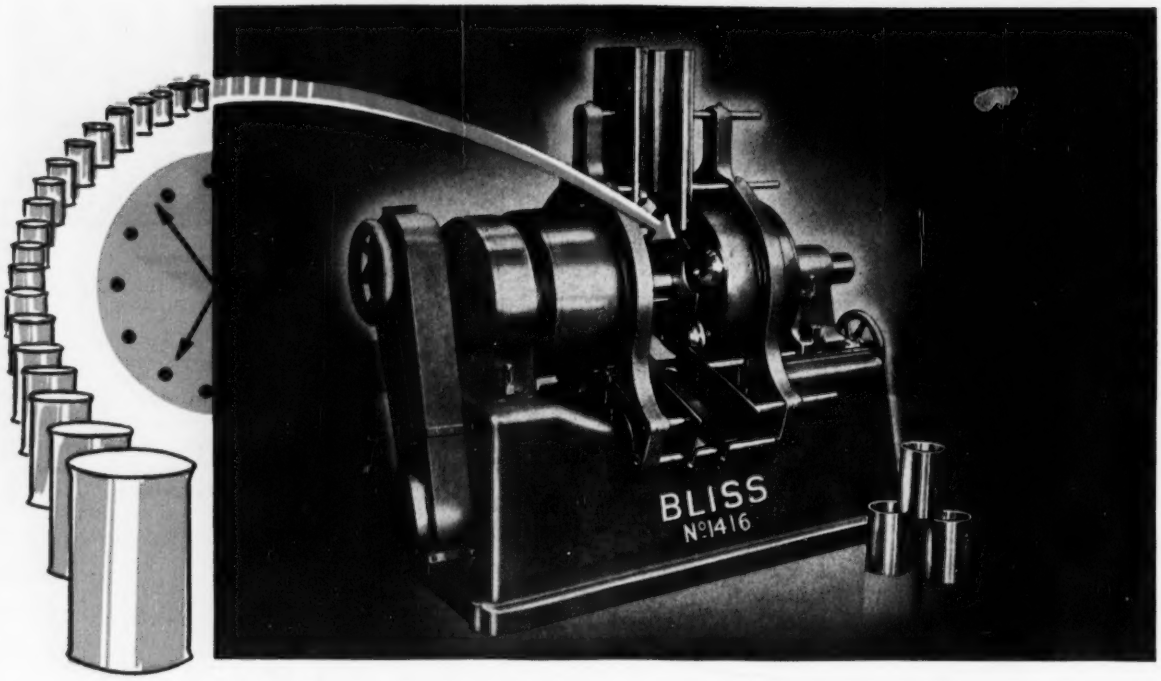
For instance, a recent survey shows 81.9% of the consumers throughout the country purchase jam and jelly in glass tumblers. Reasons for their choice include: glass attracts attention . . . tempts the appetite; foods in glass give double value . . . glass containers can be re-used; items in glass are easy to store in refrigerators.

Glass containers not only win impulse sales, they can affect brand loyalty and repeat sales. No words, no labels, no pictures spark impulse sales as effectively as the color and appeal of the food itself. There's no better way to sell a product than to let it sell itself—in glass!

The sparkle and color of products in glass tumblers invites *impulse* sales . . . their re-use value stimulates repeat sales. Ask about our survey on plain vs. decorated tumblers as salespackages.

Duraglas TRADE MARK REG. U.S. PAT. OFF. **CONTAINERS SELL FOOD BY SIGHT**

OWENS-ILLINOIS GLASS COMPANY • TOLEDO 1, OHIO • BRANCHES IN PRINCIPAL CITIES



Hour in and hour out . . .

DEPENDABLE BLISS round can flangers produce perfect double end flanges at high speeds

Which of these two flangers best suits your needs?

- *The 1315 Flanger with eight stations flanges cans from 2" to 4-3/16" diameter; from 2" to 8" high.*
- *The 1416 Flanger (illustrated) has four stations, and flanges No. 10 and similar-sized cans.*

Both models are fast and fully automatic. But, more important, both are engineered to give *long, trouble-free* performance. Flanging slides are closely spaced to allow small diameter turrets (note photograph) which work at high speeds with very little wear. All models are housed in a heavy Meehanite cast base.

To learn more about these dependable Bliss Flangers—and other equipment in the Bliss can making line—write or wire today for Catalog 36-A.

E. W. BLISS COMPANY
50 Church Street
New York 7, New York

BLISS on your machine is more than a name . . . *it's a guarantee*

BLISS CAN AND CONTAINER MAKING MACHINERY

BLITTERS · BODYMAKERS · FLANGERS · SEAMERS · TESTERS · STRIP FEED PRESSES

WANT TO ADD BUYER APPEAL TO YOUR FOODS?
SIMPLIFY PROCESSING AND CUT COSTS?

Check these PFIZER PRODUCTS for Foods and Beverages!

CITRIC ACID is best known for its use in giving a "tangy" taste to fruit flavors in beverages, candies, sherbets, gelatin desserts, jams and jellies. Another use is in inhibiting rancidity in edible oils and products high in fat content. *Sodium Citrate* is widely used as an emulsifier in process cheeses to give smooth body and firm, non-crumbling slices. It is also used as a buffer salt to control the pH in beverages, preserves and other food products.

TARTARIC ACID, a somewhat stronger acidulant than Citric Acid, is preferred by some for soft drinks and jellies, especially grape flavors. The acid and *Cream Tartar* are ingredients of tartar baking powders.

ASCORBIC ACID...Vitamin C...is widely used as an antioxidant to retard the development of off-color, off-flavor and rancidity. Packers of frozen fruits and fish have for many years recognized the added sales appeal gained by adding Pfizer Ascorbic to their packs. As an antioxidant, Ascorbic is also favored in preparing beverages and foods where rancidity is a problem.

VITAMINS. As a result of its continuing research programs, Pfizer offers a wide selection of vitamins for fortifying and enriching food products: Vitamin C for fruit juices and frozen concentrates; Vitamin A for margarine, vegetable fat frozen desserts, peanut butter and other fatty foods; Thiamine, Riboflavin, Niacin for flour and bread; and Vitamin B_{12} which has recently evoked considerable interest as a possible ingredient of foods for growing children.

For added information and technical data, write on your Company letterhead for the booklet: "Pfizer Products for the Food and Beverage Industries."

CHAS. PFIZER & CO., INC.
630 Flushing Ave., Brooklyn 6, N. Y.
Branch Offices: Chicago, Ill.; San Francisco, Calif.; Vernon, Calif.; Atlanta, Ga.

Manufacturing Chemists for Over 100 Years

Pfizer

The 'Canny Canner'

Saves Money on his fire insurance through

Canners Exchange

Our helpful service, improved coverages, strong protection, and annual savings, form an unexcelled combination of the best insurance at lowest cost

Have you checked your property values lately?

Is your coverage up to present day cost levels?

Today . . . more than ever before . . . you need the kind of insurance service that only 45 years of specialized experience in food plant insurance can provide. Check with us on any phase of your fire insurance needs. Our 45 years of consecutive annual savings . . . amounting to more than $25,000,000 in refunds to our policyholders . . . is your assurance of reliable, lowest-cost protection.

LANSING B. WARNER, INC. INSURANCE

Canners Exchange Subscribers

LANSING B. WARNER, INC.

4210 PETERSON AVENUE • CHICAGO 30, ILL.

45 YEARS OF DEPENDABLE SPECIALIZED FIRE INSURANCE FOR FOOD PROCESSORS

at

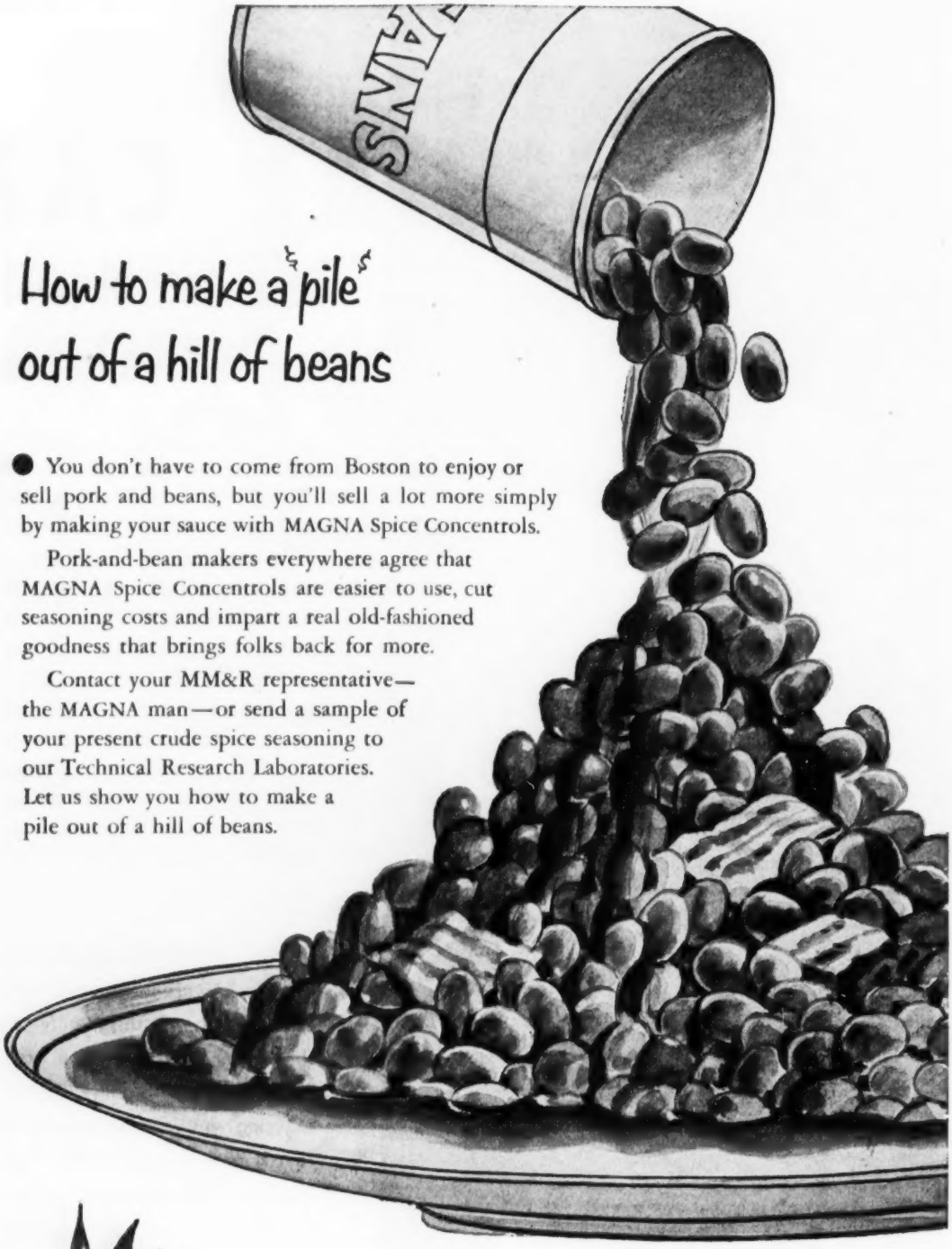
NATIONAL CAN

she works for you

Dorothy Bauersfeld tests beer cans in her miniature laboratory for their "bursting point". This is only one of the many tests that are part of National Can's "Quality Control"... assuring you better cans and a better canning operation. Typical National Can service . . . where it counts!

NATIONAL CAN
CORPORATION
Executive Offices
3217 WEST 47th PLACE, CHICAGO 32, ILLINOIS
Plants At: CHICAGO, ILL. • MASPETH, N. Y.
BALTIMORE, MD. • HAMILTON, OHIO

NC



How to make a "pile" out of a hill of beans

● You don't have to come from Boston to enjoy or sell pork and beans, but you'll sell a lot more simply by making your sauce with MAGNA Spice Concentrols.

Pork-and-bean makers everywhere agree that MAGNA Spice Concentrols are easier to use, cut seasoning costs and impart a real old-fashioned goodness that brings folks back for more.

Contact your MM&R representative—the MAGNA man—or send a sample of your present crude spice seasoning to our Technical Research Laboratories. Let us show you how to make a pile out of a hill of beans.

M M&R MAGNUS

Magnus, Mabee & Reynard, inc.

Since 1895 ONE OF THE WORLD'S GREATEST SUPPLIERS OF ESSENTIAL OILS

16 Desbrosses Street, New York 13, N. Y. · 221 North La Salle Street, Chicago 1, Illinois

It's smart to stick with Swift's Adhesives

They serve you and food shoppers, too.

Canned or bottled products that go home with shoppers should have attractive, neat appearing labels. That's why so many manufacturers look to Swift for labeling adhesives. Swift's specialized adhesives provide a lasting bond for labels on bottles, jars and cans. And more! Swift has equally effective adhesives for many other uses.

When you need adhesives, always remember—

- Swift has years of specialized experience in adhesives production.
- Swift works with a broad range of quality raw materials.
- Swift has extensive adhesives manufacturing facilities . . . distribution points from coast to coast.

Two adhesives for packaging operations

#1485 pick-up gum — handles easily on high-speed lines, doesn't stain and leaves no shiners.

#446-J lap paste and case seal — operates at high speeds, non-wrinkling and non-staining, easy to use, and doesn't loosen up under moist conditions.

The National Cranberry Association of Hanson, Massachusetts, uses Swift's #1485 pick-up gum and #446-J lap paste and case seal adhesive in their canning operations. Tight, neat labels and securely glued cases are assured.

Call **SWIFT** *first* for **ADHESIVES**

SWIFT & COMPANY
Adhesive Products Department
Chicago 9, Illinois

This offer expires November 30, 1953

Please send your 100-lb. introductory trial shipment of:

☐ Swift's #1485 pick-up gum
☐ Swift's #446-J lap end paste and case seal } At the quantity prices

These will be tested for use in our operations. We understand, if not fully satisfactory, they may be returned for credit at your expense.

Name _____ *Title* _____

Firm Name _____

Address _____

City _____ *Zone* ____ *State* _____

IF YOU CUT THESE PRODUCTS

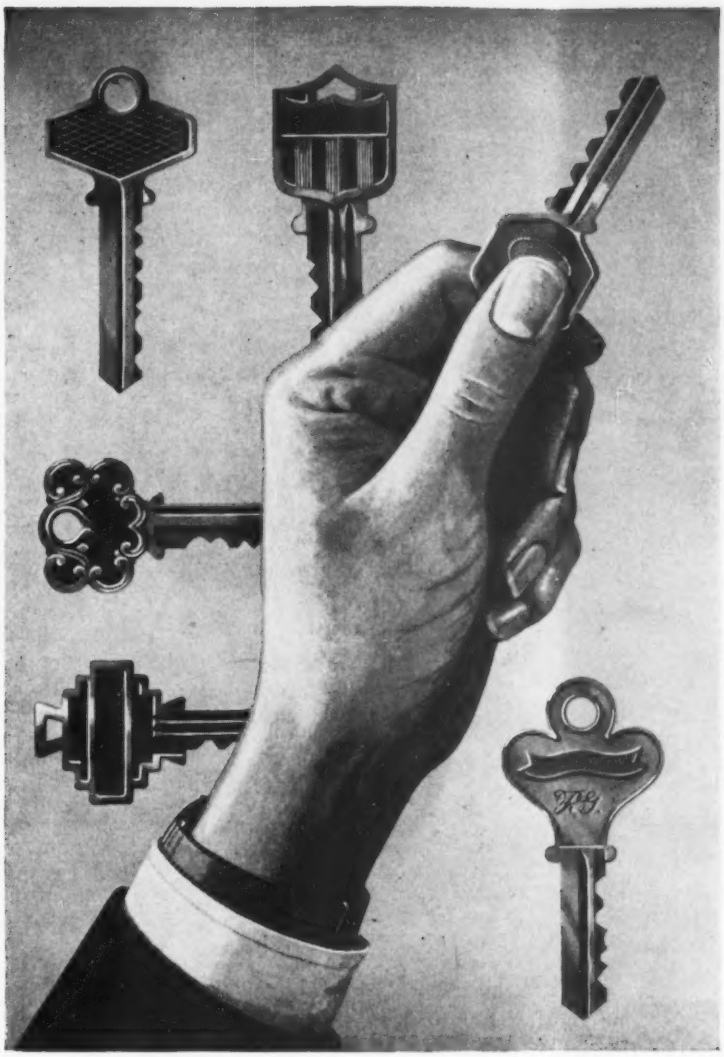
Use these URSCHEL high speed models for

	DICING	SLICING	STRIP CUTTING
apples	Model B or R	Model M	
bamboo shoots		Model O	Model R
beans (*cross-cut slicing*)		Model 30	
beets	Model B	Model Y	Model B
broccoli	Model J	Model O	
cabbage (*for chopped kraut*)	Model B		
cabbage (*fine dicing for relish*)	Model R		
carrots	Model B	Model O	Model B
carrots (*quartering lengthwise*)			Model AA
cauliflower (*fine dicing for relish*)	Model R		
celery	Model J or L	Model O	
celery (*fine dicing for relish*)	Model R		
cherries	Model R	Model R	
chicken	Model L		
citron (*raw, brined, candied*)	Model B or R		Model B or R
citrus peel (*fresh or brined*)	Model J		Model J
citrus peel (*fresh, brined, candied*)	Model L		Model L
citrus peel (*fine dicing for bakery goods and candies*)	Model R		
greens (*collards, kale, mustard, parsley, turnip, etc.*)	Model J		Model J
lemons		Model O	
meats (*all kinds*)	Model L or SL		
melon rind	Model B		
mushrooms	Model 6	Model M	Model R
mushrooms (*blanched*)	Model B		
mushrooms (*fine dicing for condiments*)	Model R		
okra		Model O or 30	
onions	Model B or R	Model M	
oranges		Model O	
peaches	Model 6		Model R
peaches (*for baby foods and preserves*)	Model R		
pears	Model 6		
peppers (*raw, brined, cooked*)	Model J or L		Model J or L
peppers (*fine dicing for relishes*)	Model R		
pickles		Model O	
pickles (*quartering lengthwise*)			Model AA
pickles (*sweet mixed chunks*)	Model O and AA		
pickles (*large dices or fine dicing for relishes*)	Model R		
pineapple (*for crushed, diced*)	Model R		
pineapple (*reslicing to chips*)		Model O	
pork (*belly or fat back*)		Model O	
potatoes	Model B	Model U or M	Model U
rhubarb		Model O	
rutabagas	Model B		Model B
spinach	Model J		
strawberries		Model M	
sweet potatoes	Model B		Model B
tomatoes (*small*)		Model M	
turkey	Model L		
turnips	Model B		Model B
water chestnuts		Model O	

PRECISION HIGH-SPEED FOOD CUTTING EQUIPMENT

URSCHEL LABORATORIES INC.
VALPARAISO, INDIANA

manufacturers of precision, high speed cutting equipment for delicate food products



Maybe this is just the one for you!

Our staff of able men—whose lives are devoted to solving "unsolvable" problems—may have the precise key to your present container problem *right now.*

If they haven't, they will devote their time to fashioning a key that *will.*

You see, the equipment and facilities available to our 310 highly skilled scientists and technicians are not surpassed in the industry. Nor is their record of achievement.

Canco customers have been out in front *first* with almost every new and better container—and frequently with an improved product within that container. And that's the record not just for this year. Or last year. But since the turn of the century.

Go first to the people who are first!

AMERICAN CAN COMPANY

CANCO

New York, Chicago, San Francisco, Hamilton, Canada

The Sanitary can—perfected by Canco—made commercial canning of fruits and vegetables possible; revolutionized the grocery business; helped raise the national level of nutrition and health.

Through the years, constant Canco pioneering and cooperation with the canning industry have brought forth widespread process and product improvement—opening new markets for canned foods of all kinds.

Hundreds of wholesome processed foods which another generation once considered luxuries are now every-day necessities in the diet of a healthier, better-nourished America.

Helping to bring about this remarkable change in distribution has been the visual impact of appetizing foods *naturally* displayed in sparkling glass containers. The competitive advantage of glass-packing is proved daily in self-service markets throughout the land.

We have been privileged to help many packers gain popular acceptance for their products through the use of attractive, high quality Tygart glass containers. We urge you to take advantage of our long experience in this field.

Tygart Valley Glass Company

WASHINGTON, PENNSYLVANIA

MORTON

for all your canning salt needs

Salt: Available WHEN you need it most!

Prompt, economical delivery anywhere in the U.S.A.

Only Morton can offer the *right* salt for your canning operation—at the *right* time, at the most favorable price and freight—*anywhere* in the country. This is made possible by Morton's *nine* plants, strategically located to service the entire country. That's one good reason why it pays to standardize on Morton Canning Salt and service.

Expert advice on the right salt for your plant

If finding the *right* salt for your operation is a problem, call in a Morton Consulting Engineer. He will study your requirements—advise which of Morton's specialized canning salts is right for your operation. These include *Morton 999*, a salt of highest purity; *Morton H. G. Granulated*, a screened, high grade evaporated salt of improved purity, controlled quality and uniformity; *Morton K. D. Granulated*, a superior quality of evaporated salt; and *Morton Rock Salt*. You can specify Morton Salt for *any* plant anywhere.

MORTON SALT COMPANY
Industrial Division
Dept. CS-3, 120 S. LaSalle St.
Chicago 3, Illinois

Please send a Morton Representative to analyze my salt and canning operation. No obligation, of course.

Name and title_____

Firm_____

Address_____

City_____ Zone____ State_____

what's **corn** doing breaking thru the sound barrier?

CORN PERFORMS VITAL FUNCTIONS . . . IN MANY UNEXPECTED PLACES

The aluminum alloy in the fuselage of a supersonic jet . . . and the steel-molybdenum in its armor . . . use a derivative of corn in their manufacture. Specialized corn starches are used in refining and extracting these metals from their ores. This is but one of the numerous examples of how basic research in corn helps American industry . . . helps you.

CORN PRODUCTS IN CANNING

For the canning industry Corn Products Refining Company supplies highest quality dextrose, corn starch and various types of corn syrups . . . recommended ingredients for many canning formulas.

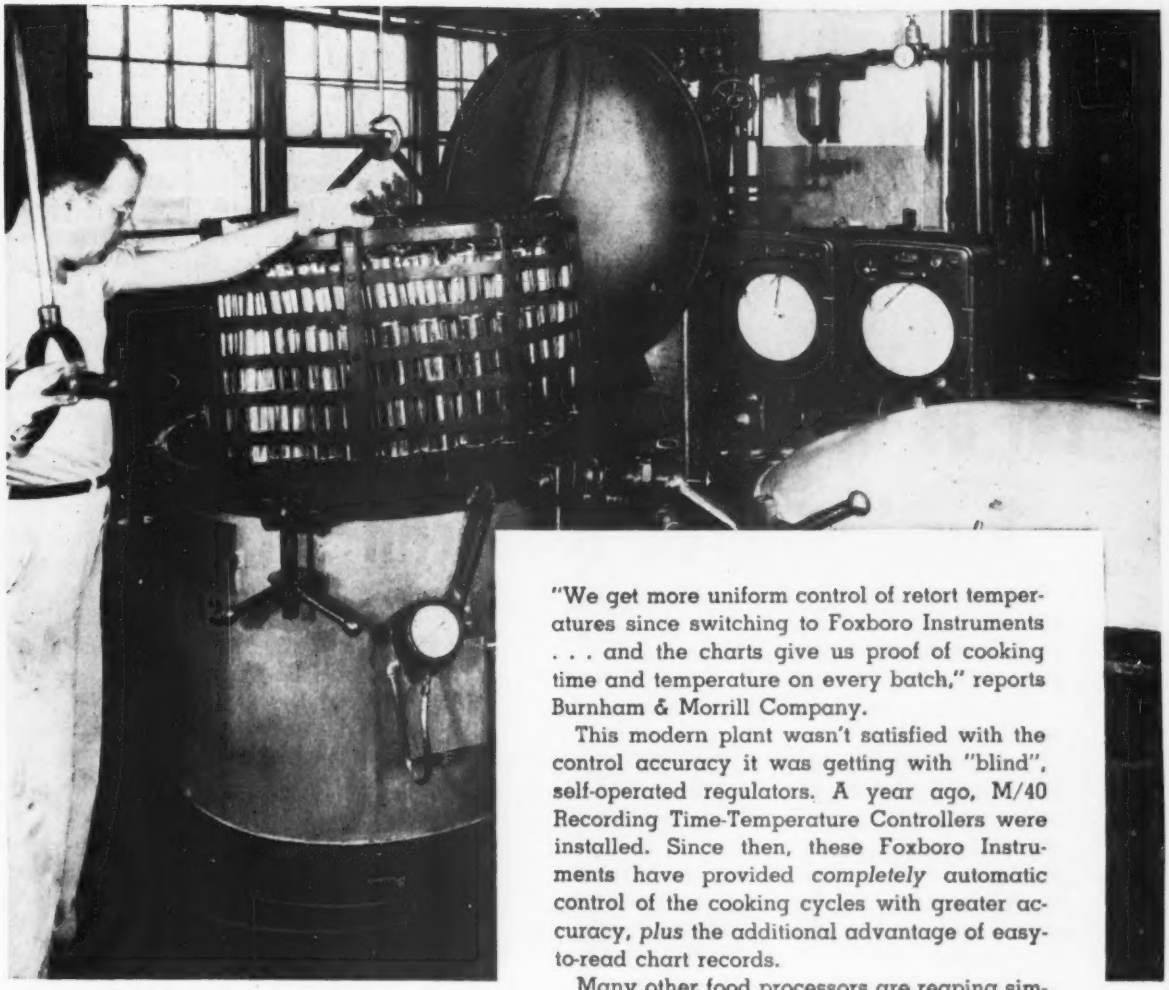
We offer quality in volume supply unexcelled in the field. Complete technical service is available without cost or obligation. If you have a production problem why not check with Corn Products. We welcome your specific technical inquiries.

Manufacturers of
CERELOSE®
brand dextrose
GLOBE®
brand corn syrup

CORN PRODUCTS REFINING COMPANY, 17 Battery Place, New York 4, N.Y.

B&M gets "MORE UNIFORM CONTROL"

. . . with Foxboro Automatic Temperature Controllers



Two of the 24 Foxboro Time-Temperature Controllers now giving better retort operation at Burnham & Morrill Company, Portland, Me.

"We get more uniform control of retort temperatures since switching to Foxboro Instruments . . . and the charts give us proof of cooking time and temperature on every batch," reports Burnham & Morrill Company.

This modern plant wasn't satisfied with the control accuracy it was getting with "blind", self-operated regulators. A year ago, M/40 Recording Time-Temperature Controllers were installed. Since then, these Foxboro Instruments have provided *completely* automatic control of the cooking cycles with greater accuracy, *plus* the additional advantage of easy-to-read chart records.

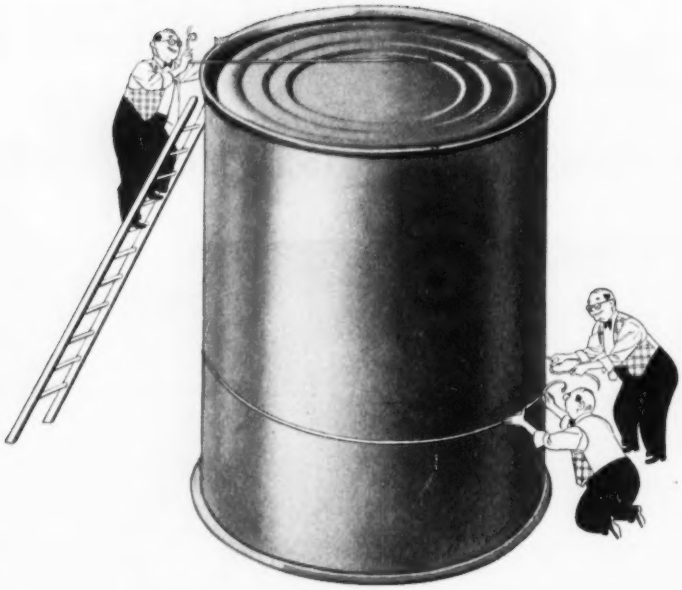
Many other food processors are reaping similar benefits from Foxboro Measurement and Control Systems. Write today for information that will improve your production, or see your Foxboro Field Engineer.

THE FOXBORO COMPANY, 929 NEPONSET AVENUE, FOXBORO, MASSACHUSETTS, U.S.A.

FOXBORO
REG. U. S. PAT. OFF.

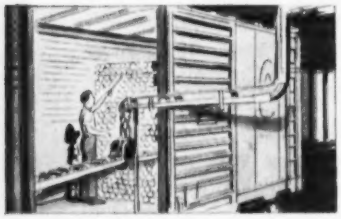
INSTRUMENTS THAT IMPROVE PRODUCT UNIFORMITY

FACTORIES IN THE UNITED STATES, CANADA, AND ENGLAND

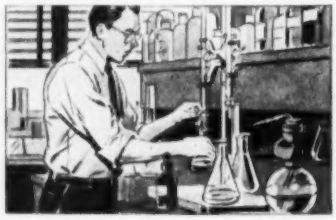


Let us measure you three ways for hand-tailored food can service

When you name Continental your supplier of cans, we treat you as if you were our only customer. We hand-tailor our deliveries, research and engineering to your particular needs. We do our level best to do things your way. If you'd like this kind of service, why not call in a Continental man today.



DELIVERY. Continental makes more than 250 standard sizes and styles of packers' cans. They're shipped fast from plants in or near every food-growing section of the United States.



RESEARCH. The services of a superior central laboratory and conveniently located field laboratories are always available to help customers solve processing and packaging problems.

ENGINEERING. Continental package machinery experts are always on call to help set up packing lines for customers, supervise preventive maintenance, and suggest ways to reduce costs.

CONTINENTAL CAN COMPANY

CONTINENTAL CAN BUILDING
100 EAST 42ND STREET • NEW YORK 17, N. Y.

Eastern Div.: 100 E. 42nd St., New York 17 • Central Div.: 135 So. La Salle St., Chicago 3 • Pacific Div.: Russ Building, San Francisco 4

OCTOBER 15, 1953 **Food Packer** Vol. 34, No. 11

CANNING • GLASSPACKING • FREEZING

Plant Layout and Equipment

As a special feature of its 1953 Buyers Guide & Reference Issue, FOOD PACKER presents, for the first time, complete flow sheets and lists of general equipment and quality control equipment needed for processing several of our most important crops.

These crops are: Canned tomatoes and tomato juice; frozen and canned peas; frozen whole kernel sweet corn; canned cream style sweet corn; canned and frozen red sour pitted cherries; preserves; fresh-pack pickles; and concentrated citrus juices.

When designing an efficient food processing plant, many problems must be carefully considered before final decisions are made. Of major importance is the location of equipment so that raw products enter the plant and flow through processing lines quickly and with a minimum of waste, lost motion, and shutdowns due to high-capacity in one part of the plant, or low-capacity in another.

In presenting the following typical flow sheets and related information for 11 products, FOOD PACKER has no intention of giving a detailed, scaled engineer's layout of what should make up a specific plant. Rather, we are presenting a general guide to those in the industry who want to improve or enlarge their plants, add additional processing facilities, or completely equip a new building. The many details are not worked out for each operation. Because every plant is or would be different in many respects, only a general approach to proposed changes can be given here.

However, these questions come up often: "What kind of layout and equipment do I need to pack a given capacity of canned tomatoes and tomato juice, say 10 tons per hour of the raw product? Where can I get the equipment, and how should it be installed for fast, sanitary, and efficient operation?"

Answers to these questions for tomatoes and other products are found on the following pages.

Because of the increasing emphasis on quality in present-day food processing, we have also included in this feature a list of the equipment and instruments that can be used to good advantage in packing high-quality products.

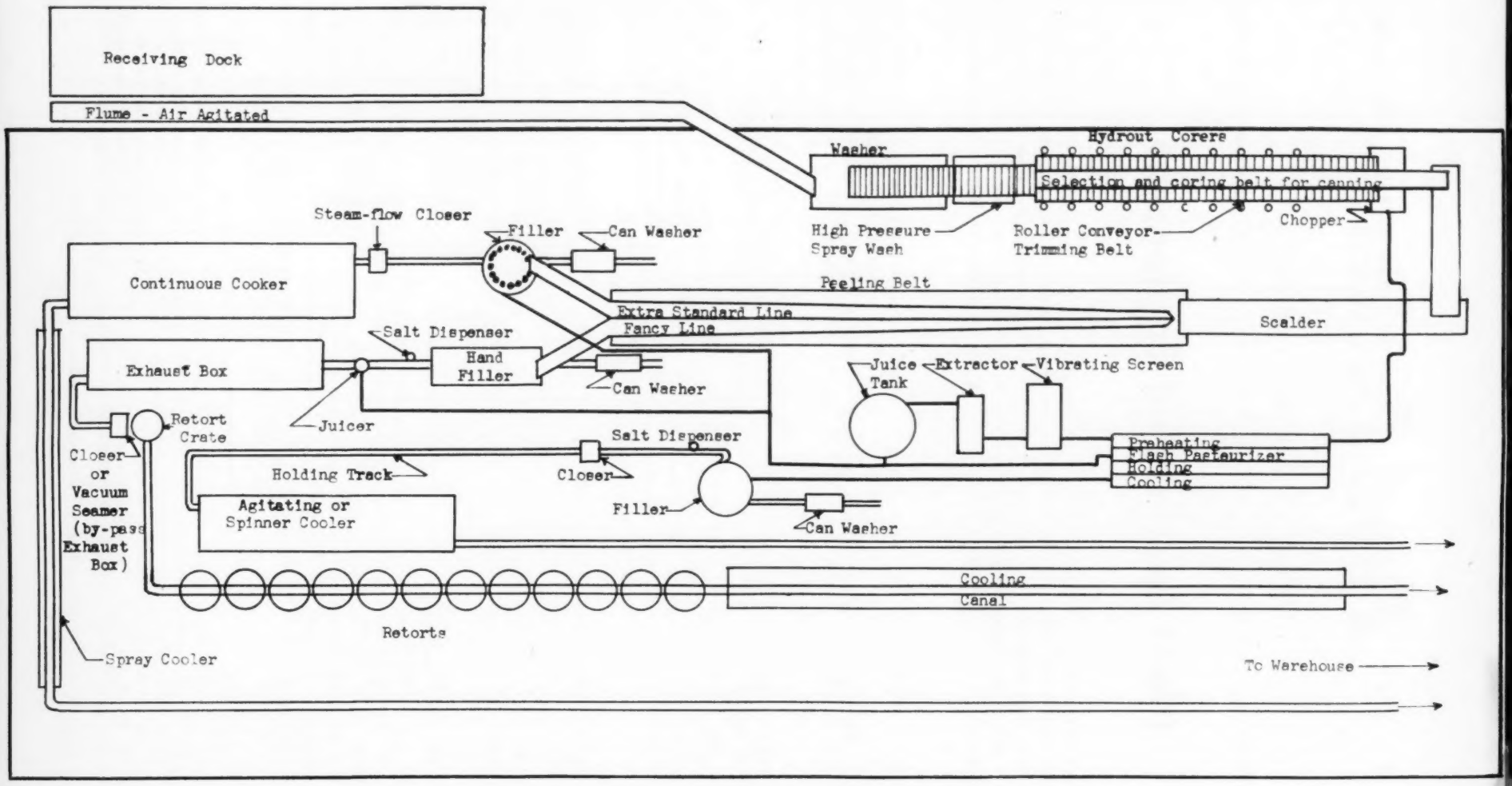
For easy reference and as an aid in using this Buyers Guide & Reference Issue most effectively, code letters and numbers listed with the flow sheets refer to the manufacturers of equipment and supplies contained in the "Processing Equipment and Materials Directory" that starts on page 42.

HOW TO USE THIS SECTION: If you want to know, for instance, who manufactures soaker washers for use in a tomato plant, turn to Section A of the "Processing Equipment and Materials Directory" on page 52. Here, under the heading, "307—WASHERS —Process Type, Tomato," will be listed the names of the manufacturers.

The same holds true for the manufacturers of quality-control equipment and supplies. If you want to know who makes grading trays for use on tomatoes, turn to Section G, "Quality control equipment and laboratory supplies," and you'll find the manufacturer listed on page 76 under the heading, "18—Grading trays."

The following flow sheets and lists of equipment needed for processing these products, and lists of quality-control equipment, were prepared for FOOD PACKER by W. A. Gould, Quality Control Editor, and Rees B. Davis; Duane G. DeWeese; Gilbert R. DuVernay; Harold H. Hale; Carl D. Kennerly; Najaji Kojima; and James O. Mavis.

Gould and associates, and the editors of FOOD PACKER are especially grateful to many leading manufacturers in the processing industry for their splendid cooperation in furnishing specifications and data on equipment and supplies that were needed to make this compilation.



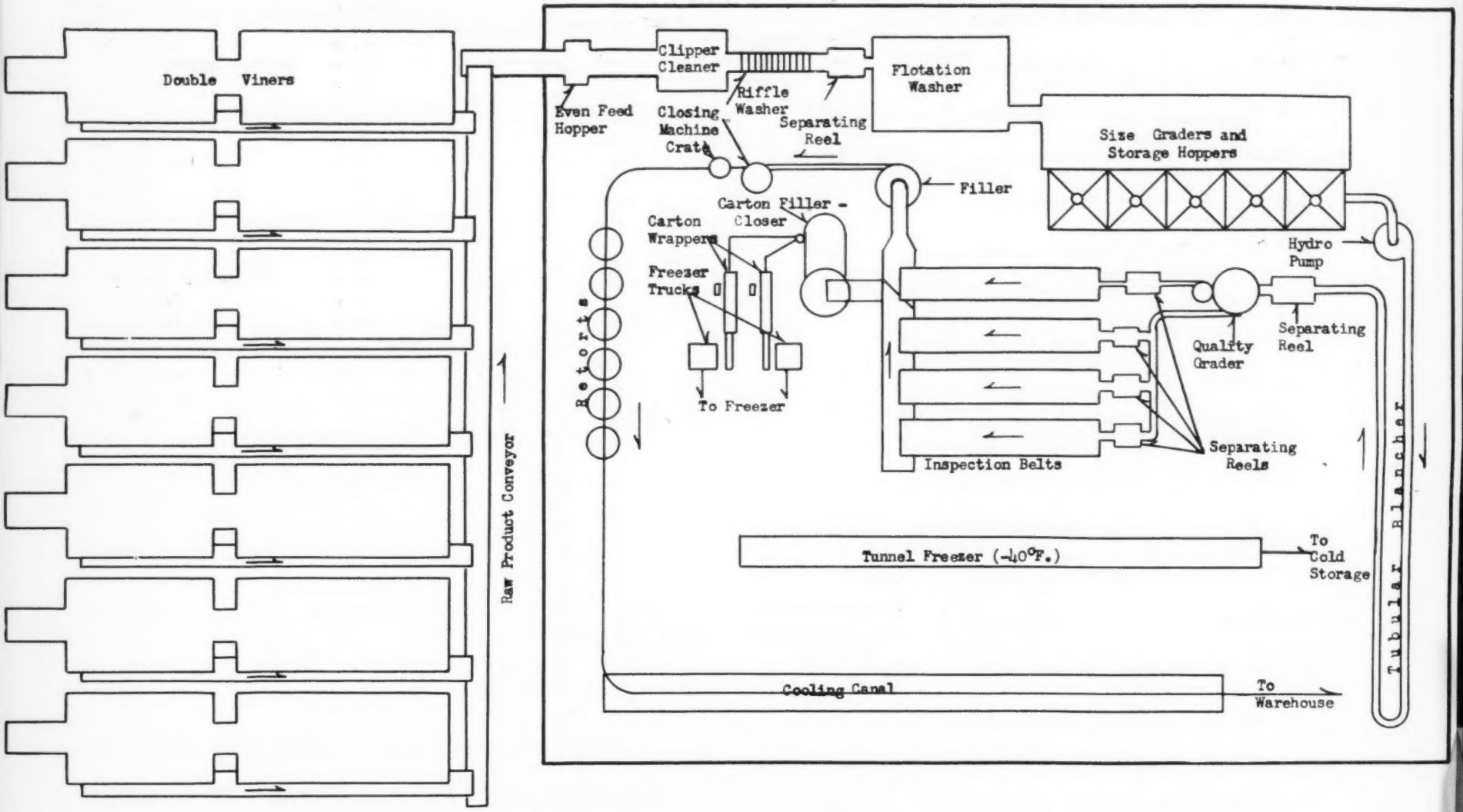
THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT NEEDED FOR FANCY AND EXTRA STANDARD CANNED TOMATO LINE AND TOMATO JUICE LINE, CAPACITY 10 TONS PER HOUR

Suggested basic equipment for a canned tomato and tomato juice line, capacity 10 tons per hour of the raw product

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
SOAKER WASHER	A 307	1	1
HIGH PRESSURE SPRAY WASHER	A 198, 307	1	2
TOMATO CORERS	A 276	40	—
SELECTION BELT	A 207	1	3
CORING BELT	A 126, 205	1	2
CHOPPER	A 275	1	10
SCALDER	A 281	1	1
PEELING BELT	A 205, 206, 207	1	3
CAN WASHER	A 27	1	1½
FILLER	B 44, 45, 46, 47	2	2
SALT DISPENSER	A 90, 91	3	¼
JUICE FILLER	B 46	2	3
CLOSING MACHINES	B 28	3	15
CONTINUOUS COOKER	A 64	1	3
EXHAUST BOX	A 111	1	3
RETORT CRATE	A 77, 232	50-75	—
RETORTS	A 233	12	—
SPRAY COOLER	A 65	1	3
CAN TRACKS	A 58	Variable	Variable
COOLING CANAL	A 65	Variable	Variable
PREHEATER	A 201	1	1
VIBRATING SCREEN	A 237	1	1
EXTRACTOR	A 112	1	3
JUICE TANK	A 2, 190, 256, 265, 262	150-300 gal.	—
PASTEURIZER	A 138, 201	1	3
AGITATING COOLER	A 65	1	3

Quality control equipment for use in packing canned tomatoes & tomato juice

EQUIPMENT	MANUFACTURER
CENTER TEMPERATURE DEVICE	G 6
COLORIMETERS	G 8
GRADING LIGHTS	G 10
INSPECTION TABLE	G 24
GRADING TRAYS	G 18
GRADING SCREENS	G 17
HEAD SPACE GAUGE	G 19
INSECT FRAGMENT EQUIPMENT	G 23
MICROSCOPE	G 27
REFRACTOMETER	G 34
THERMOMETER	G 39
VACUUM GAUGE	G 43, A 127
VISCOSITY INSTRUMENTS	G 44



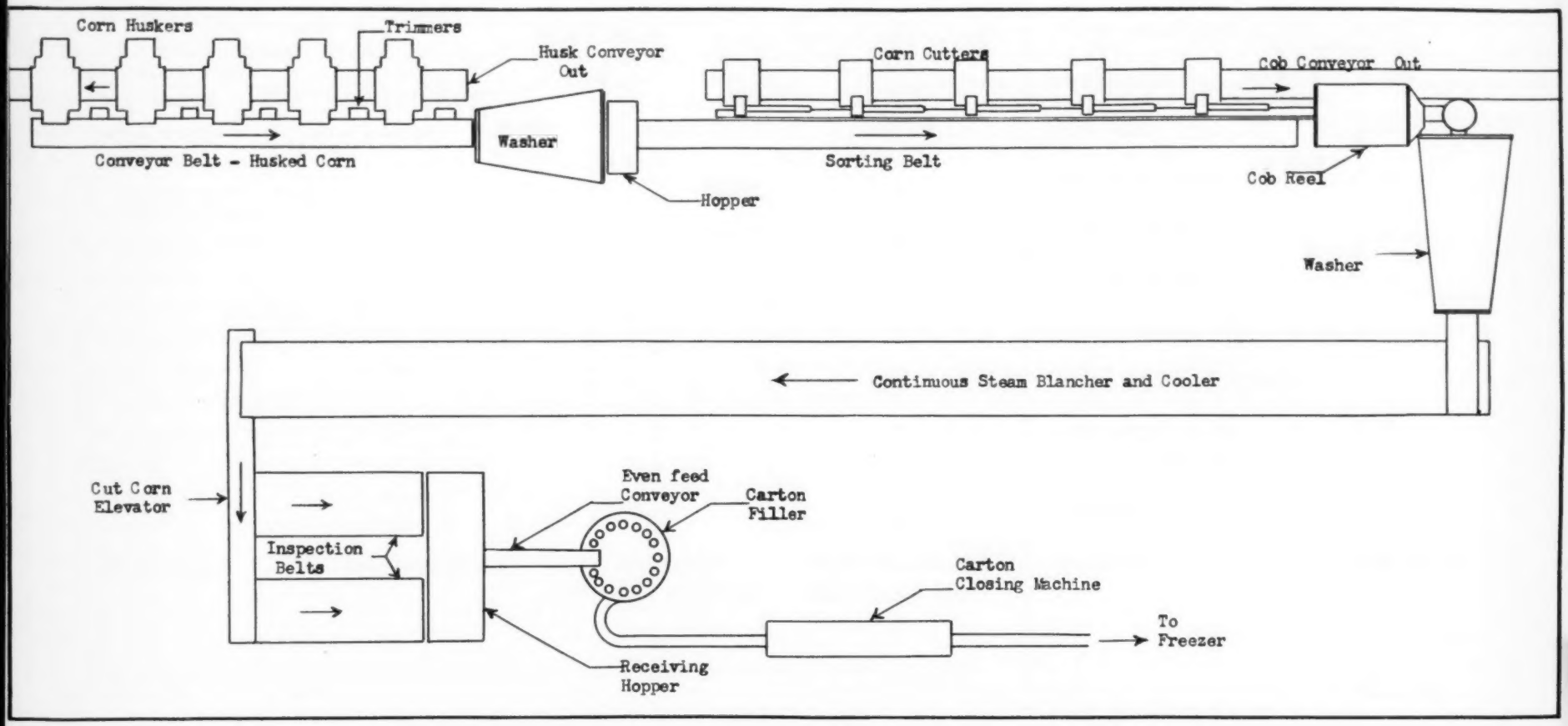
THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT NEEDED FOR FROZEN AND CANNED PEAS, CAPACITY 50,000 POUNDS PER EIGHT-HOUR DAY OF THE RAW PRODUCT

Suggested basic equipment for rozen and canned peas, capacity 50,000 pounds per eight-hour day of raw product

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
VINERS	A 301	7	70
CONVEYORS	A 50, 52, 53, 54, 56	5	7½
CLIPPER CLEANER	A 33	1	3
FLOTATION WASHER	A 305	1	3
TUBULAR BLANCHER	A 15	1	1
HYDRO PUMP	A 221	1	1
QUALITY SEPARATOR	A 238	1	2
AUTOMATIC BRINE MIXER	A 19	1	1/3
SEPARATOR	A 238	6	1½
INSPECTION TABLE	A 52, 54	4	2
FILLER AND CLOSER (FROZEN PACK)	B 16	1	2
WRAPPING MACHINE	B 17, 18	2	1
PLATE FREEZER	E 20, 21	Variable	Variable
SIZE GRADER	A 132	1	5
FILLER AND BRINER (CANNED PRODUCT)	B 41	1	¾
CLOSING MACHINE (CANNED PRODUCT)	B 8, 28	1	3
RETORTS	A 233	6	—
RETORT CRATES	A 77	30	—

Quality control equipment for use in packing frozen and canned peas

EQUIPMENT	MANUFACTURER
AIS EQUIPMENT	G 4
CENTER TEMPERATURE MEASURING DEVICE	G 6
ENZYME TESTING EQUIPMENT	G 12
GRADING LIGHTS	G 10
GRADING SCALES	G 16
GRADING TRAYS	G 18
HEAD SPACE GAUGE	G 19
HYDROMETER	G 20
SIZING GAUGE	G 35
TEXTURE INSTRUMENTS	G 38
VACUUM GAUGE	G 43, A 127



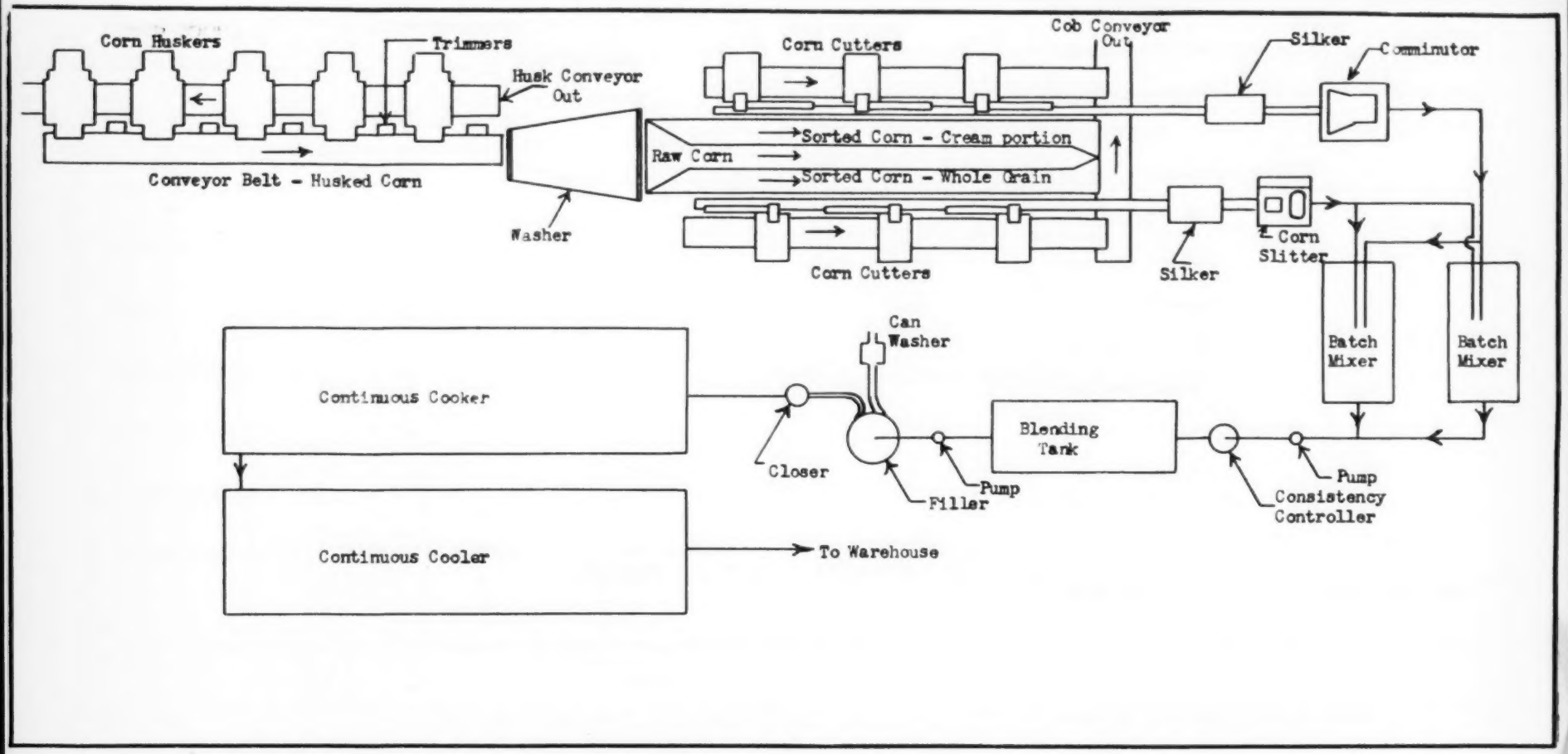
THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT NEEDED FOR PACKAGING FROZEN WHOLE KERNEL SWEET CORN, CAPACITY TEN TONS PER HOUR OF THE RAW PRODUCT

Suggested basic equipment for packing frozen whole kernel sweet corn, capacity ten tons per hour of the raw product

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
DOUBLE HUSKERS	A 73	5	15
CORN TRIMMERS	A 69	5	2½
WASHER-HUSKED EARS	A 303	1	2
CUTTERS	A 70	5	7½
COB REEL	A 303	1	1
WASHER, CUT CORN	A 303	1	3
INSPECTION BELT	A 55	2	2
STEAM BLANCHER AND COOLER	A 15	1	5
CARTON FILLER AND CLOSING MACHINE	B 16, 17, 18	1	1½

Quality control equipment for use in packing frozen whole kernel sweet corn

EQUIPMENT	MANUFACTURER
ALCOHOL INSOLUBLE SOLIDS	G 4
CENTER TEMPERATURE MEASURING DEVICE	G 6
ENZYME TESTING EQUIPMENT	G 12
GRADING LIGHTS	G 10
GRADING SCALES	G 16
GRADING SCREENS	G 17
GRADING TRAYS	G 18
HEADSPACE GAUGE	G 19
INSECT FRAGMENT EQUIPMENT	G 23
MICROSCOPES	G 27
MOISTURE INSTRUMENTS	G 30
PERICARP CONTENT EQUIPMENT	G 33
REFRACTOMETERS	G 34
VACUUM GAUGE	G 43, A 127



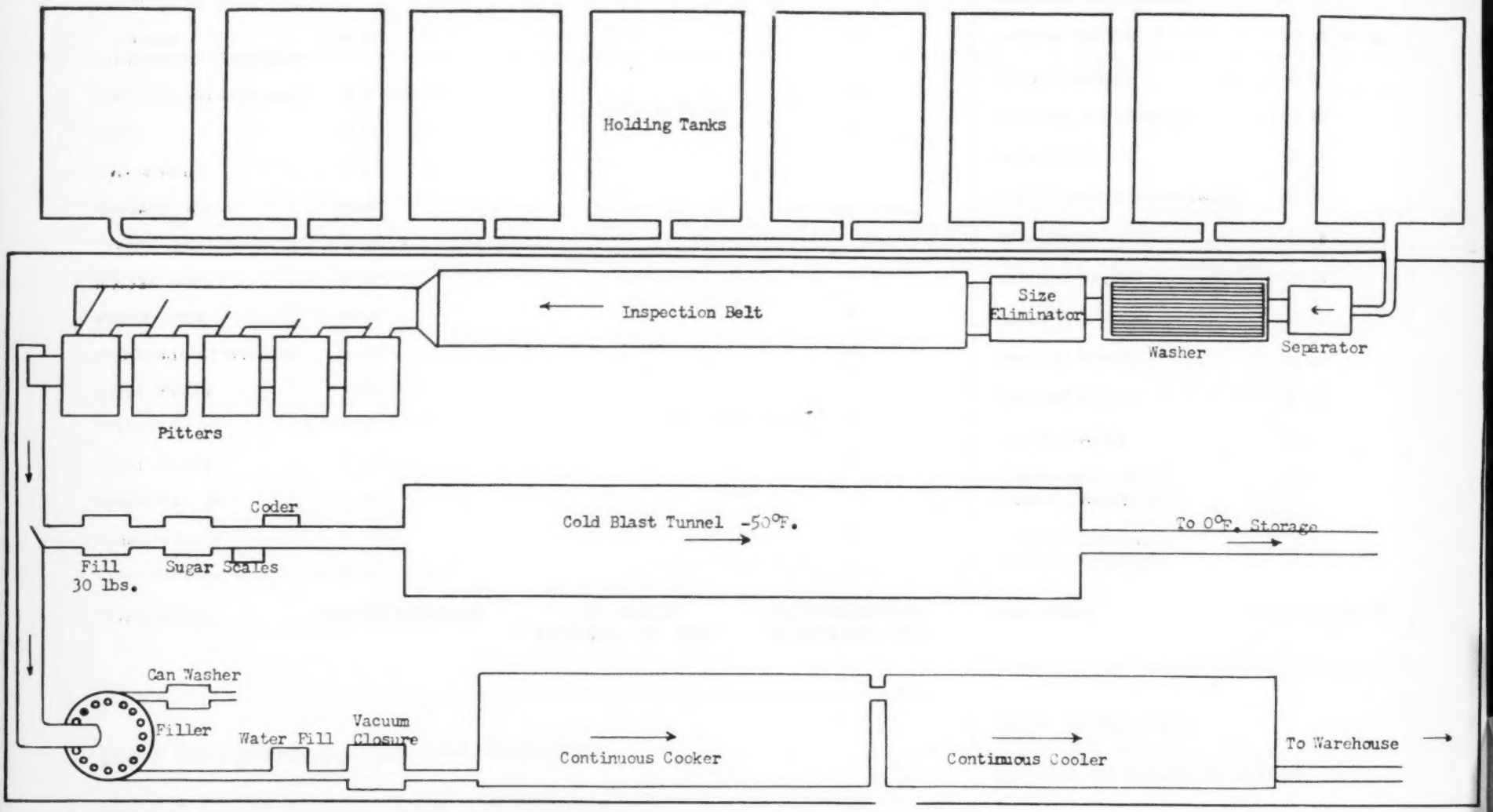
THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT NEEDED FOR PACKING CANNED CREAM STYLE SWEET CORN, CAPACITY TEN TONS PER HOUR OF THE RAW PRODUCT

Suggested basic equipment for canned cream style sweet corn, capacity ten tons per hour of the raw product

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
CORN HUSKERS	A 73	5	15
CORN WASHER	A 303	1	2
INSPECTION BELT	A 55	1	½
CORN CUTTER	A 70, 81	6	9
SILKER	A 75	2	4
CORN SLITTER	A 38	1	5
COMMINUTING MACHINE	A 38	1	10
BATCH MIXER	A 74	2	2
ROTARY PUMP	A 223	3	6
CONSISTENCY CONTROLLER	A 44, G 9, G 44	1	1/6
BLENDING MIXER	A 66	1	1
CAN WASHER	A 27	1	½
FILLER	B 41	1	1½
CAN CLOSING MACHINE	B 8, 28	1	1½
CONTINUOUS AGITATING COOKER	A 64	1	7½
CONTINUOUS AGITATING COOLER	A 65	1	7½

Quality control equipment for use in packing cream style sweet corn

EQUIPMENT	MANUFACTURER
ALCOHOL INSOLUBLE SOLIDS EQUIPMENT	G 4
CENTER TEMPERATURE MEASURING DEVICE	G 6
CONSISTOMETER	G 9
GRADING LIGHTS	G 10
GRADING SCALES	G 16
GRADING SCREENS	G 17
GRADING TRAYS	G 18
HEAD SPACE GAUGE	G 19
INSECT FRAGMENT EQUIPMENT	G 23
MICROSCOPE	G 27
MOISTURE INSTRUMENTS	G 30
REFRACTOMETERS	G 34
VACUUM GAUGE	G 43, A 127
VISCOSITY INSTRUMENTS	G 44



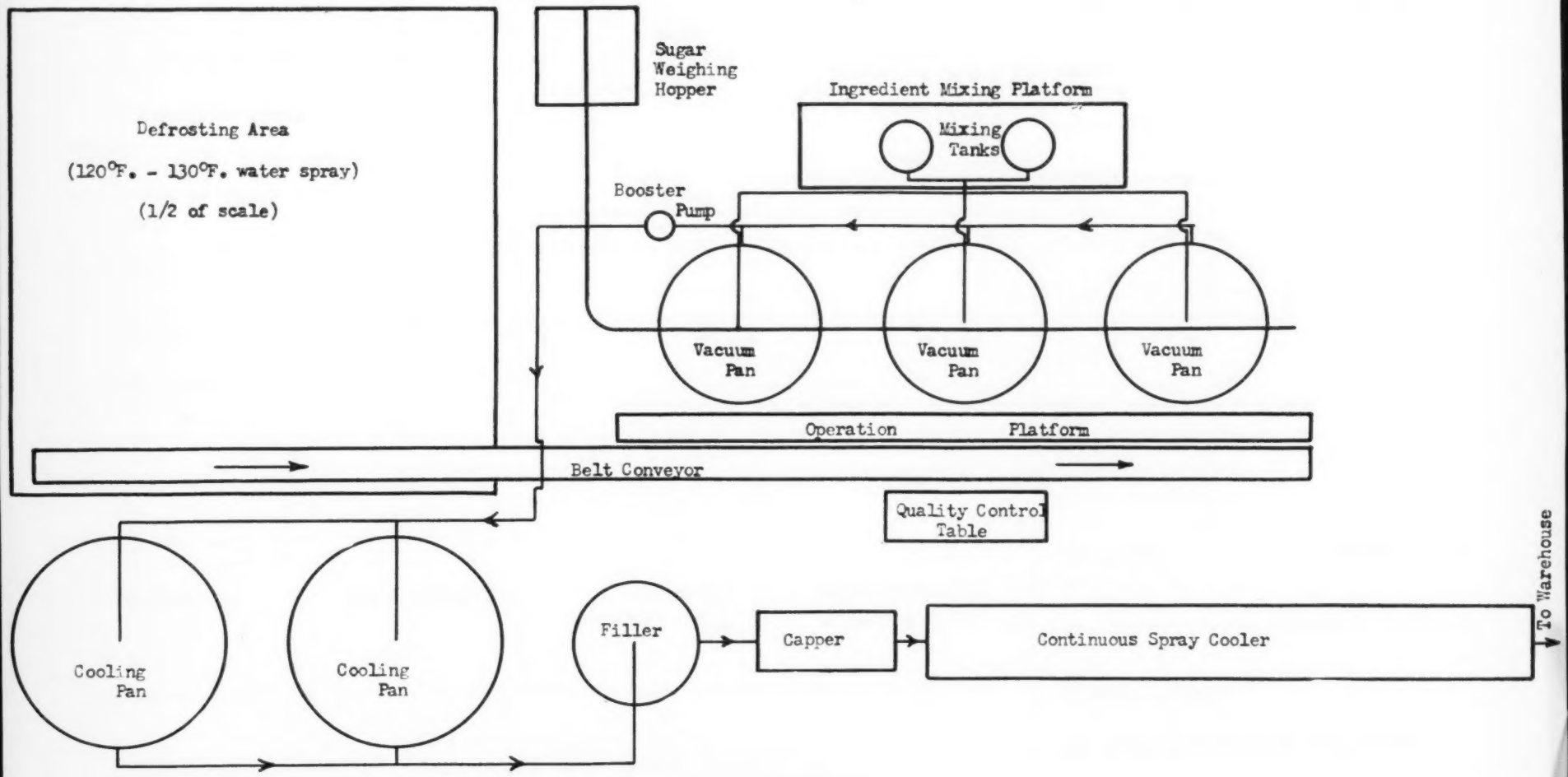
THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT, NEEDED FOR PACKING CANNED AND FROZEN RED SOUR PITTED CHERRIES, CAPACITY FIVE TONS PER HOUR

Suggested basic equipment for packing canned and frozen red sour pitted cherries, capacity five tons per hour

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
HOLDING TANKS	—	8	—
SEPARATOR	A 238	1	½
WASHER	A 304	1	1½
SIZE ELIMINATOR	A 130, 241	1	1
INSPECTION BELT	A 54, 55	1	2
PITTERS	A 211	5	7½
FILLER	B 44, 46	1	1
VACUUM CLOSURE	B 28	1	Variable
CONTINUOUS COOKER	A 64	1	Variable
CONTINUOUS COOLER	A 65	1	Variable
AIR BLAST FREEZER TUNNEL	E 20	1	Variable
CODE DATING EQUIPMENT	B 35	1	¼

Quality control equipment for use in packing red sour pitted cherries

EQUIPMENT	MANUFACTURER
CENTER TEMPERATURE MEASURING DEVICE	G 6
GRADING LIGHTS	G 10
GRADING SCALES	G 16
GRADING SCREENS	G 17
GRADING TRAYS	G 18
HEAD SPACE GAUGE	G 19
HYDROMETER	G 20
SIZING GAUGES	G 35
VACUUM GAUGE	G 43, A 127



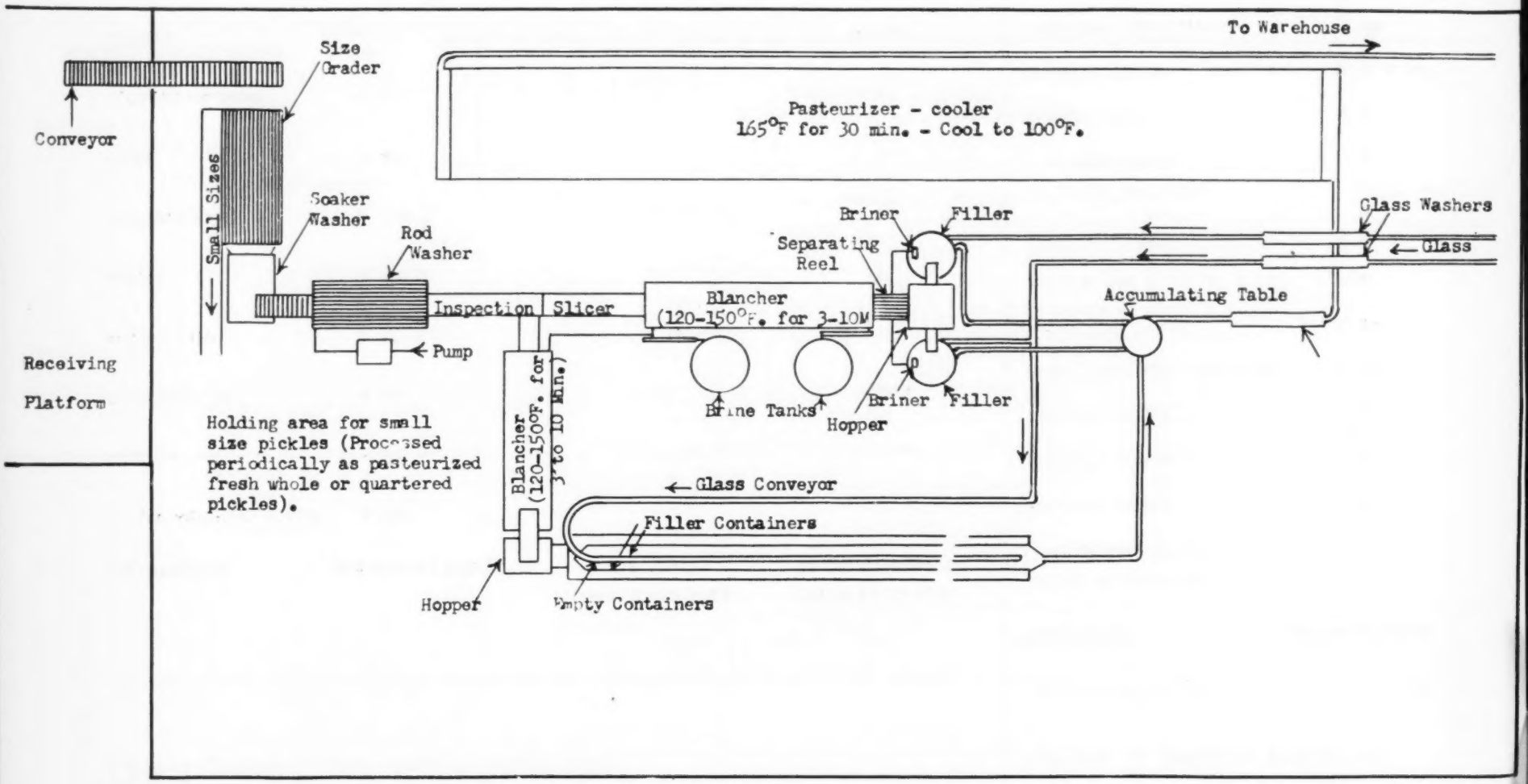
THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT NEEDED FOR PACKING PRESERVES, CAPACITY 2,000 CASES (24-1 pound) PER EIGHT-HOUR DAY.

Suggested basic equipment for a preserve line, capacity 2,000 cases (24-1 pound) per eight-hour day

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
SUGAR WEIGHING SCALES	A 236	1	—
VACUUM PAN	A 290 a	3 (300 gal)	Variable
CONVEYOR BELT	A 55	1	Variable
MIXING TANK	A 171	2 (20 gal)	—
MIXERS	A 190	2	1
COOLING PAN	A 65	2 (300 gal)	6
FILLER	B 43	1	1½
CLOSING MACHINE	B 28	1	3
COOLER	A 65	1	Variable
SANITARY PUMP	A 224	1	2

Quality control equipment for use in packing preserves

EQUIPMENT	MANUFACTURER
CENTER TEMPERATURE MEASURING DEVICE	G 6
GRADING LIGHTS	G 10
GRADING SCALES	G 16
GRADING TRAYS	G 18
INSECT FRAGMENT EQUIPMENT	G 23
INSPECTION TABLES	G 24
MICROSCOPE	G 27
REFRACTOMETERS	G 34
pH METER AND ACID DETERMINATION	G 26
THERMOMETERS	G 39
VACUUM GAUGE	G 43, A 127
VISCOSITY INSTRUMENTS	G 44



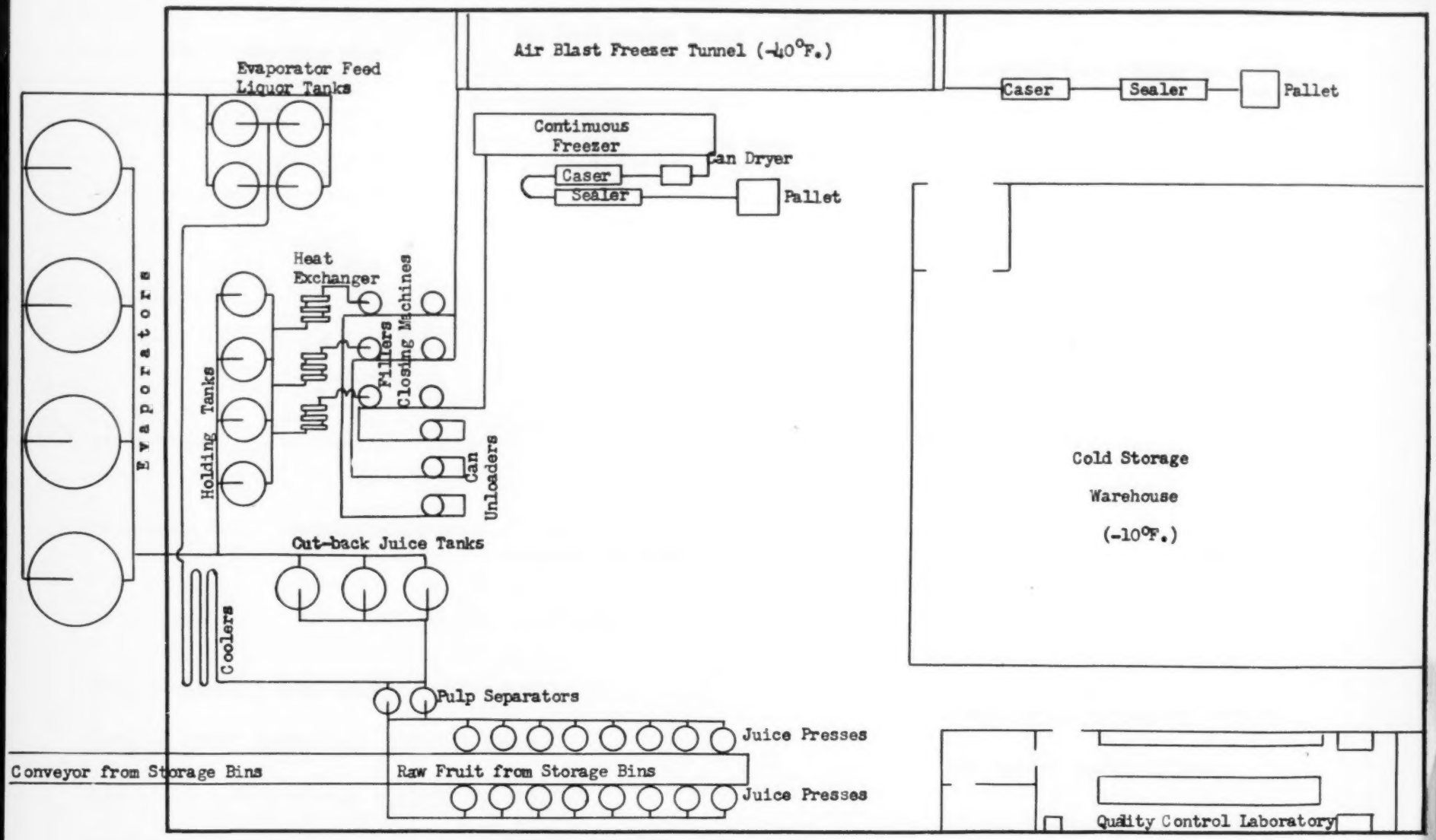
THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT NEEDED FOR PACKING FRESH-PACK SLICED OR WHOLE PICKLES, CAPACITY 1,000 CASES (24-1 quart) PER EIGHT-HOUR DAY.

Suggested basic equipment for packing fresh-pack sliced or whole pickle line, capacity 1,000 cases (24 1-quart) per eight-hour day

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
SIZE GRADER	A 130	1	3
SOAKER WASHER	A 307	1	5
ROD WASHER	A 303	1	2
SLICER	A 82, 243	1	1
BLANCHER	A 15	2	6
DEWATERING REEL	A 238	1	1
FILLER	B 44, 46	2	1
BRINER	B 45	2	—
ACCUMULATING TABLE	B 12, A 290, A 1	1	½
CAPPER	B 15, 28	1	2
PASTEURIZER-COOLER	A 64, 65	1	Variable
GLASS WASHER	A 302	2	1/3
INSPECTION BELT	A 54, 55	1	2
PACKING BELT	A 50, 52, 54, 57	1	3

Quality control equipment for use in packing fresh-pack sliced or whole pickles

EQUIPMENT	MANUFACTURER
GRADING LIGHTS	G 10
GRADING SCALES	G 16
GRADING SCREEN	G 17
GRADING TRAYS	G 18
HEAD SPACE GAUGE	G 19
pH AND ACID TITRATION EQUIPMENT	G 26
THERMOMETERS	G 39
VACUUM GAUGE	G 43, A 127



THIS FLOWSHEET SHOWS TYPICAL PLANT DESIGN AND EQUIPMENT FOR PACKING FROZEN CONCENTRATED CITRUS JUICES, CAPACITY 15,000 CASES (48-6 Oz.) PER 24-HOUR DAY.

Suggested basic equipment for packing frozen concentrated citrus juices, 15,000 cases (48 - 6 oz.) per 24 - hour day

EQUIPMENT	MANUFACTURER	NUMBER OR SIZE OF UNITS	ESTIMATED H.P. REQUIREMENTS
JUICE PRESSES	A 112	16	40
PULP SEPARATORS	A 112	2	6
CUT-BACK JUICE TANKS	A 263, 265, 267	3	—
COOLERS	A 65	1	1
HOLDING TANKS	A 263, 265, 267	4	—
HEAT EXCHANGERS	A 138	3	7½
FILLERS	B 46, 47	3	—
CLOSING MACHINES	B 8	3	3
CAN UNLOADERS	B 12	3	¾
EVAPORATORS	A 108, E 15, E 24	4	320
FEED LIQUOR TANKS	A 263, 265, 267	4	—
CONTINUOUS FREEZER	A 136, E 21	1	Variable
CASER	B 22	2	1
SEALER	B 24	2	1
AIR BLAST TUNNEL	E 21	1	Variable

Quality control equipment for use in packing frozen concentrated citrus juices

EQUIPMENT	MANUFACTURER
GRADING LIGHTS	G 10
GRADING SCALES	G 16
GRADING TRAYS	G 18
HYDROMETERS	G 20
INCUBATORS	G 21
MICROSCOPE	G 27
MOLD COUNTING EQUIPMENT	G 29
PEEL OIL EQUIPMENT	G 32
pH AND ACID CONTENT EQUIPMENT	G 26
REFRACTOMETER	G 34
THERMOMETERS	G 39
VACUUM GAUGE	G 43

State and regional canning and food processing associations and organizations

Alaska Salmon Industry, Inc.

President: Fred Gunderson, Independent Salmon Canneries, Inc., Seattle, Wash.
Vice-President: A. R. Barthold, Alaska Packers Assn., Seattle, Wash.
Secretary-treasurer: L. T. Kreielsheimer, Kadiak Fisheries Co., Seattle, Wash.
Managing director: W. C. Arnold, 200 Colman Bldg., Seattle, Wash.

Associated Independent Canners, Inc.

President: J. P. Kraemer, Mammoth Spring Canning Co., Sussex, Wis.
Vice-president: T. A. Freming, Fairmont Canning Co., Fairmont, Minn.
Secretary-treasurer: G. E. Jones, Columbia Canning Co., Cambria, Wis.

Association of Canners State and Regional Secretaries

President: Paul Hinkle, Ohio Canners Association, Celina, Ohio
Vice-president: Edwin W. Elmer, Minnesota Canners Assn., Minneapolis, Minn.
Secretary-treasurer: C. W. York, Pennsylvania Canners Assn., York, Pa.

Association of Pacific Fisheries

President: Vance F. Sutter, Fidalgo Island Packing Co., Seattle, Wash.
First vice-president: A. R. Barthold, Alaska Packers Assn., Seattle, Wash.
Secretary-treasurer: E. D. Clark, 200 Colman Bldg., Seattle 4, Wash.

Baltimore Canned Foods Exchange

President: W. E. Lamble Jr., Southern Packing Co., Baltimore 23, Md.
Vice-president: R. D. Cleaveland, The H. J. McGrath Co., Baltimore 24, Md.
Secretary: E. H. Langrall, J. Langrall & Bro., Inc., 2105 Aliceanna St., Baltimore 31, Md.
Treasurer: E. E. Langrall, J. Langrall & Bro., Inc., 2105 Aliceanna St., Baltimore 31, Md.

California Fig Institute

Chairman: D. K. Grady, Fresno, Calif.
Secretary-treasurer: H. E. Buck, Fresno, Calif.
Managing director: R. D. McLaughlin, Fresno, Calif.

California Fish Canners Association, Inc.

President: M. J. Gorby, California Marine Curing and Packing Co., Terminal Island, Calif.
Vice-president: J. S. DeSilva Jr., South Coast Fisheries, Inc., 820 Ways St., Terminal Island, Calif.
Secretary-treasurer: G. H. Clark, West Coast Packing Corp., 1687 W. Water St., Long Beach 2, Calif.
Executive vice-president and general manager: R. H. Beaton, Ferry Bldg., Terminal Island, Calif.

California Olive Association

President: Henry S. Titus, Mawer-Gulden-Annis, Inc., Suisun City, Calif.
Vice-president: Elmer Adams, A. Adams Jr. & Sons Co., Sunland, Calif.
Secretary-treasurer: Miss Erline Hevel, 461 Market St., San Francisco, Calif.

California Processors and Growers, Inc.

President: P. N. Mark, Tri-Valley Packing Assn., San Francisco, Calif.
Vice-president: Geo. Gooding, California Packing Corp., San Francisco, Calif.
Executive vice-president: J. W. Bristow, 1200 Financial Center Bldg., Oakland 12, Calif.

Canadian Food Processors Association

President: S. T. Preston, Preston's Pure Preserves, Ltd., Ville St. Laurent, Que.
Vice-president: F. T. Sherk, H. J. Heinz Co. of Canada, Ltd. Leamington, Ont.
Treasurer: W. H. Heeney, Heeney Frosted Foods, La Prairie, Que.
Secretary-manager: P. R. Robinson, 54 Rideau St., Ottawa, Ont.

Canned Foods Association of Ontario

President: E. R. Renouf, Campbell Soup Co., Ltd., New Toronto, Canada
Vice-president: R. B. Graham, Graham Food Products, Ltd., Belleville, Canada
Secretary-treasurer: R. W. Neal, 202 Imperial Bldg., Hamilton, Ontario Canada

Canners League of California

President: D. B. Wood, Wood Canning Co., Stockton, Calif.
Vice-president: G. A. Gooding, California Packing Corp., San Francisco 19, Calif.
Executive vice-president: M. A. Clevenger, 215 Market St., San Francisco 5, Calif.
Secretary: Miss Sylvia Kempton, 64 Pine St., San Francisco 11, Calif.
Treasurer: R. J. Marsh, 64 Pine St., San Francisco 11, Calif.

Central States Frozen Food Association

President: Herbert Behrel, Booth Fisheries Corp., Chicago, Ill.
Vice-president: H. W. Daum, Hugh W. Daum Co., Chicago, Ill.
Secretary: R. F. McCarthy, Minute Maid Corp., 205 W. Wacker Drive, Chicago, Ill.
Treasurer: F. N. Wood, Central Cold Storage Co., Chicago, Ill.

Columbia River Salmon & Tuna Packers Association

Chairman: T. F. Sandoz, Columbia River Packers Assn., Inc., P. O. Box 60, Astoria, Ore.
Executive secretary: J. H. Cellars, Columbia River Packers Assn., Inc., P. O. Box 60, Astoria, Ore.

Concord Grape Cooperative Development Association

President: A. D. Elabarger, Keystone Cooperative Grape Assn., North East, Pa.
Vice-president: George Page, D. W. Putnam Co., Hammondsport, N. Y.
Secretary: Robert Fischer, Fischer-Spiegel, Inc., Geneva, Ohio
Treasurer: A. S. Wolcott, Seneca Grape Juice Corp., Dundee, N. Y.

Eastern Shore of Virginia Packers Association

President: G. L. Webster, G. L. Webster Co., Inc., Cheriton, Va.
Vice-president: H. E. Kelley, H. E. Kelley & Co., New Church, Va.
Secretary: Otto Lowe, Cape Charles, Va.

Evaporated Milk Association

President: D. M. Dent, The Borden Co., 350 Madison Ave., New York 17, N. Y.
Vice-president: George B. Page, Page Milk Co., Merrill, Wis.
Executive secretary: Dr. F. E. Rice, 228 N. Lasalle St., Chicago 1, Ill.
Treasurer: Marion Moore, Wilson Milk Co., 320 N. Meridian St., Indianapolis, Ind.

Florida Canners Association

President: H. R. Cloud, Minute Maid Corp., Plymouth, Fla.
Vice-president: Ralph L. Miller, Plymouth Citrus Products Cooperative, Plymouth, Fla.
Executive secretary: C. C. Rathbun, Chamber of Commerce Bldg., Tampa, Fla.
Treasurer: John Snively Jr., Snively Groves, Inc., Winter Haven, Fla.

Georgia Canners Association

President: C. Rouss May, The Hills Bros. Co., Woodbury, Ga.
First vice-president: Ed White, White Packing Co., Vienna, Ga.
Secretary: Paul J. Mitchell Jr., Box 73, Griffin, Ga.

Illinois Canners Association

President: W. R. Benner, Streator Canning Co., Streator, Ill.
Vice-president: Lloyd Sparrow, Lomax Canning Co., Lomax, Ill.
Secretary-treasurer: W. D. Jones, 114½ N. Monroe St., Streator, Ill.

Indiana Canners Association, Inc.

President: G. A. Turmail, Bluffton Foods, Inc., Bluffton, Ind.
Vice-president: T. N. Lyons, Morgan Packing Co., Austin, Ind.
Secretary-treasurer: A. F. Dreyer, 424 Illinois Bldg., Indianapolis 4, Ind.

Iowa-Nebraska Canners Association, Inc.

President: John Martland, Green Giant Co., Vinton, Iowa
Vice-president: Ralph Day, Marshall Canning Co., Marshalltown, Iowa
Secretary-treasurer: Roy Chard, Audubon, Iowa

Louisiana-Mississippi-Alabama Vegetable Processors Association

President: J. L. McPhillips, King Pharr Canning Operations, Inc., Cullman, Ala.
Vice-president: Sam J. Serio, Magnolia Canning Co., Magnolia, Miss.
Treasurer: B. F. Trappey, B. F. Trappey's Sons, Inc., New Iberia, La.
Secretary and assistant treasurer: J. F. Bowman, Southern Shell Fish Co., Harvey, La.

Maine Canners Association

President: George B. Morrill Jr., Burnham & Morrill Co., Portland, Maine
Vice-president: Fred C. Black, Black & Gay Canners, Inc., Thomaston, Maine
Secretary-treasurer: F. Webster Browne, H. C. Baxter & Bro., Brunswick, Maine

Maine Sardine Packers Association, Inc.

President: M. B. Pike, Holmes Packing Corp., Eastport, Maine
First vice-president: Lester Wass, Machiasport Canning Co., Eastport, Maine
Secretary-treasurer: James Abernethy, Sunset Packing Co., Inc., West Pembroke, Maine

Michigan Canners Association

President: A. E. Brown, Michigan Fruit Canners Inc., Benton Harbor, Mich.
Vice-president: C. H. Carlson, Burnette Farms Packing Co., Hartford, Mich.
Secretary-treasurer: Reed M. Roberts, 1014 Franklin St. S. E., Grand Rapids 7, Mich.

Minnesota Canners Association

President: Robert C. Cosgrove, Green Giant Co., Le Sueur, Minn.
Vice-president: Chas. A. Brown, Olivia Canning Co., Olivia, Minn.
Secretary-treasurer: E. W. Elmer, 303 Wesley Temple Bldg., Minneapolis 3, Minn.

Monterey Fish Processors Association

President: Sebastian Sollecito, Enterprise Packers, Monterey, Calif.
Vice-president: James Tolagson, Oxnard Canners, Monterey, Calif.
Secretary-treasurer: Geo. Leutzinger, Peninsula Packing Co., Monterey, Calif.
Consultant: Geo. Clemens, 503 Ocean View Ave., P. O. Box 1424, Monterey, Calif.

National Fruit & Syrup Manufacturers Association

President: Geo. A. Fox Jr., Geo. A. Fox Products Co., Kansas City, Mo.
Vice-president: G. F. Meyer, Warner-Jenkinson Mfg. Co., St Louis, Mo.
Secretary-treasurer: A. H. Melnikoff, Trufruit Syrup Corp., 650 62nd St., Brooklyn, N. Y.
Corresponding secretary: J. S. Hall, Hickey & Hall, 1051 First National Bank Bldg., Chicago, Ill.

National Kraut Packers Association

President: Alden C. Smith, Shiocton Kraut Co., Shiocton, Wis.
Vice-president: J. M. Stroup, Empire State Pickling Co., Phelps, N. Y.
Secretary-treasurer: W. R. Moore, 1012 North Blvd., Oak Park, Ill.

National Meat Canners Association

President: Ralph Keller, Geo. A. Hormel & Co., Chicago, Ill.
Vice-president: J. E. Clair, Republic Food Products Co., Chicago, Ill.
Secretary: J. H. Moninger, 59 E. Van Buren St., Chicago 5, Ill.
Treasurer: W. J. Foell, Foell Packing Co., Chicago, Ill.

National Pickle Packers Association

President: James M. Irwin, The H. W. Madison Co., Cleveland, Ohio
Vice-president: Edward Guggenheimer, Block & Guggenheimer, Long Island City, N. Y.
Secretary: W. R. Moore, 1012 North Blvd., Oak Park, Ill.
Treasurer: Earl G. Van Holten, J. G. Van Holten & Son, Milwaukee, Wis.
Managing executive: Col. E. T. Miller, 1012 North Blvd., Oak Park, Ill.

National Preservers Association

President: Buell H. Bedford, Bedford Products, Inc., Dunkirk, N. Y.
Vice-president: W. K. Meschter, American Preserve Co., Philadelphia, Pa.
Secretary-treasurer: J. C. Fosgate, Chester C. Fosgate Co., P. O. Box 2673, Orlando, Fla.
Managing director: W. Lowe Walde, 1346 Connecticut Ave., N. W., Washington 6, D. C.

National Red Cherry Institute

President: Gary S. Morgan, John C. Morgan Co., Traverse City, Mich.
Vice-president: B. F. Batcheler, Fruit Growers Cooperative, Sturgeon Bay, Wis.
Executive secretary-treasurer: W. B. Powell, 35 E. Wacker Drive, Chicago 1, Ill.

National Shrimp Canners & Packers Association

President: T. B. Holcombe, Indian Ridge Canning Co., Inc., Houma, La.
Vice-president: C. M. Carriere, Southern Shell Fish Co., Inc., Harvey, La.
Secretary-treasurer: Leonora Decuers, 904 Hibernia Bank Bldg., New Orleans 12, La.

National Soup Mix Association

President: A. I. Grass, I. J. Grass Noodle Co., Chicago, Ill.
Vice-president: Harold Suttle, Thomas J. Lipton Co., Hoboken, N. J.
Secretary-treasurer: Edith S. Linsley, Glenn G. Hoskins Co., Libertyville, Ill.
Managing director: G. G. Hoskins, Glenn G. Hoskins Co., Libertyville, Ill.

New Jersey Canners Association

President: Dr. Frank App, Seabrook Farms Co., Bridgeton, N. J.
Vice-president: Wm. B. Renton, H. J. Heinz Co., Salem, N. J.
Secretary-treasurer: N. B. Watson, R. S. Watson & Son, Greenwich, N. J.

New York State Canners & Freezers Association, Inc.

President: Walter W. Wilson, Silver Creek Preserving Co., Silver Creek, N. Y.
Vice-president: Francis J. Miller, Curtice Brothers Co., Rochester, N. Y.
Secretary: W. H. Sherman, 226 First Federal Savings Bldg., Rochester 4, N. Y.
Treasurer: D. B. Ingersoll, Halstead Canning Co., Inc., Cortland, N. Y.

Northwest Canners Association

President: J. E. Klahre, Apple Growers Association, Hood River, Ore.
First vice-president: Vernon Whitney, Walla Walla Canning Co., Walla Walla, Wash.
Executive vice-president and secretary-treasurer: Cecil R. Tulley, Board of Trade Bldg., Portland, Ore.

Northwest Frozen Foods Association

President: B. T. Jones, Pietsweet Foods Inc., Mt. Vernon, Wash.
Vice-president: F. G. Lamb, Lamb-Weston, Inc., Weston, Ore.
Secretary-treasurer: E. M. Burns, 507 Title & Trust Bldg., Portland, Ore.

Northwest Packers and Growers, Inc.

President: Max Lehmann, Northwest Packing Co., 554 N. Columbia Blvd., Portland, Ore.
Vice-president: Chester Roche, Western Oregon Packing Corp., Corvallis, Ore.
Secretary--treasurer: Wm. E. Yeomans, 1220 S. W. Morrison St., Portland 5, Ore.

Northwest Salmon Canners Association

President: Jack Lind, General Fish Co., Seattle, Wash.
Vice-president: Chuck Turner, Kadiak Fisheries Co., Seattle, Wash.
Secretary-Treasurer: Jack Brennan, Haines Packing Co., Seattle, Wash.

Ohio Canners Association

President: Thomas Timmer, Tip Top Canning Co., Tipp City, O.
Vice-president: E. E. Richard, H. J. Heinz Co., Bowling Green, O.
Secretary-treasurer: Paul Hinkle, Stubbs Bldg., Celina, O.

Ozark Canners Association

President: Larry DeWese, Steele Canning Co., Springdale, Ark.
Vice-president: J. J. Diehl Jr., Hyde Park Canning Co., Muskogee, Okla.
Secretary-treasurer: Joe T. Talbert, 14-16 Appleby Bldg., Fayetteville, Ark.

Pacific Coast Clam Packers Association

President: G. P. Halferty, G. P. Halferty & Co., Seattle 4, Wash.
First vice-president: A. A. Bugge, Bugge Canning Co., Seqium, Wash.
Secretary-treasurer: Louis Howkinson, H. M. Parks Co., Seattle, Wash.
Asst. secretary: F. A. Bugge, Bangor Canning Co., Bangor, Wash.

Pennsylvania Canners Association

President: A. Reed Hayes Jr., Mifflin County Packing Co., Reedsville, Pa.
Vice-president: James M. Shriver, B. F. Shriver Co., Westminster, Md.
Executive secretary: Charles W. York,

25 N. Duke St., York, Pa.
Treasurer: R. M. Mears, 25 N. Duke St., York, Pa

Pineapple Growers Association of Hawaii

President: Elvon Musick, 215 Market St., San Francisco 5, Calif.
First vice-president: Randolph Crossley, Hawaiian Fruit Packers, Ltd., P. O. Box 1061, Honolulu, T. H.
Secretary: C. L. Queen, 215 Market St., San Francisco 5, Calif.
Treasurer: R. E. Searby, American Factors, Ltd., 215 Market St., San Francisco 5, Calif.

Pineapple Research Institute of Hawaii

President: C. C. Cadagan, Hawaiian Pineapple Co., Ltd., P. O. Box 3380, Honolulu 1, T. H.
First vice-president: Elvon Musick, 215 Market St., San Francisco 5, Calif.
Secretary: C. L. Queen, 215 Market St., San Francisco 5, Calif.
Treasurer: H. K. Smoot, P. O. Box 3166, Honolulu, T. H.

Processed Apples Institute, Inc.

President: L. W. Brown, National Fruit Product Co., Inc., Winchester, Va.
Vice-president: J. J. Tormey, Lyndonville Canning Co., Inc., Lyndonville, N. Y.
Secretary: J. P. Arthur, Shenandoah Valley Apple Cider and Vinegar Corp., Winchester, Va.
Treasurer: E. J. Yoder, C. H. Musselman Co., Biglerville, Pa.
Executive director: Mabel G. Flanley, 30 E. 40th St., New York 16, N. Y.

Puerto Rico Canners Association

President: Mario Escudero, Isabella Packing Corp., San Juan, P. R.
First vice-president: Enrique Landron, Corozal Canning Co., Inc., Corozal, P. R.
Secretary: Jose Valiente, Valiente & Co., Corozal, P. R.
Treasurer: Norman Parkhurst, Parkhurst Canning Co., Bayamon, P. R.

Razor Clam Canners Association

President: G. P. Halferty, G. P. Halferty & Co., Seattle 4, Wash.
Vice-president: Walter Plumb, Plumb & Edney, Copalis, Wash.
Secretary-treasurer: Fred Weigardt, Weigardt Bros., Ocean Park, Wash.

Santa Clara County Canners Association

President: J. R. Braden, Richmond-Chase Co., San Jose, Calif.
Vice-president: C. B. Weston, Libby, McNeill & Libby, San Francisco, Calif.
Secretary-treasurer: R. J. Marsh, 64 Pine St., San Francisco 11, Calif.

Southern California Food Processors Association

President: Chas. Kern, Kern Food Products, Inc., Los Angeles 23, Calif.
Vice-president: Albert Vignolo Jr., West Coast Packing Corp., Long Beach, Calif.
Secretary: E. H. Howlett, 1115 Transamerican Bldg., 649 S. Olive St., Los Angeles 14, Calif.
Treasurer: W. E. Beach, McKeon Canning Co., Inc., Burbank, Calif.

Southwest Canners Association, Inc.

President: F. R. Dorsey, Athens Canning Co., Athens, Texas
Vice-president: J. W. Woldert, Woldert Canning Co., Ltd., Tyler, Texas

Tennessee-Kentucky Canners Association

President: John Craddock, Real Foods, Inc., Tiptonville, Tenn.
Vice-president: R. K. Roney Jr., Old Black Joe Co., Hohenwald, Tenn.
Secretary-treasurer: H. L. W. Hill, Tennessee Foods, Inc., Portland, Tenn.

Texas Canners Association

President: L. W. Fritz, St. Clair Foods Co., McAllen, Texas
Vice-president: Harold Akin, McAllen, Texas
Treasurer: C. M. Sherrill, Knapp-Sherrill Co., Donna, Texas
Secretary: J. O. Smith, P. O. Box 47, Weslaco, Texas

Texas Shrimp Association

President: W. J. Godfrey, Western Shellfish Co., Brownsville, Texas
Vice-president: Morgan Daniel, Alphen Seafoods, Port Lavaca, Texas
Executive secretary: J. E. Barr, Brownsville, Texas
Treasurer: John Faubion, Port Lavaca, Texas

Tidewater Canners Association of Virginia, Inc.

President: Russell C. Hammack, Hammack Packing Co., Emmerton, Va.
Vice-president: W. H. Sanford Jr., Sanford Canning Co., Tucker Hill, Va.
Secretary-treasurer: R. A. Harris Jr., Kinsale, Va.

Tri-State Packers Association, Inc.

President: Glenn E. Knaub, P. J. Ritter Co., Bridgeton, N. J.
Vice-president: W. E. Lamble Jr., Southern Packing Co., Inc., Baltimore, Md.
Secretary-treasurer: John W. Rue, Masonic Bldg., Easton, Md.

Utah Canners Association

President: J. F. Gimlin Jr., Woods Cross Canning Co., Clearfield, Utah
Vice-president: J. J. Isom, Hunt Foods, Inc., Salt Lake City, Utah
Secretary-treasurer: Harvey F. Cahill, 321 Kiesel Bldg., Ogden, Utah

Virginia Canners Association

President: S. G. Wimmer, S. G. Wimmer & Sons, Christiansburg, Va.
Vice-president: J. W. Siegfried Jr., Columbia, Va.
Secretary-treasurer: E. S. Marshall, 1228 Third St., S. W., Roanoke, Va.

Wisconsin Canners Association

President: Ray D. Krier, Krier Preserving Co., Belgium, Wis.
Vice-president: R. R. Hipke, A. T. Hipke & Sons, Inc., New Holstein, Wis.
Secretary: G. E. Jones, Columbia Canning Co., Cambria, Wis.
Treasurer: L. S. Montgomery, Gale Packing Co., Galesville, Wis.
Executive secretary: Marvin P. Verhulst, 1003 Tenney Bldg., Madison 3, Wis.

Distributors, Suppliers, and other industry supporting organizations

Association of Food Distributors, Inc.

President: W. A. Benz, Strohmeyer & Arpe Co., New York 13, N. Y.
Vice-president: John P. Houck, M. W. Houck & Bro., New York 13, N. Y.
Executive secretary: T. R. Schoonmaker, 100 Hudson St., New York 13, N. Y.
Treasurer: Harry G. Wendt, W. A. Higgins & Co., Inc., New York 13, N. Y.

Association of Food Industry Sanitarians

President: S. M. Anderson, Libby, McNeill & Libby, Sunnyvale, Calif.
Vice-president: Chas. A. Clark, General Foods Corp., New York 17, N. Y.
Executive secretary-treasurer: E. S. Doyle, National Canners Association, 1950 Sixth St., Berkeley, Calif.

Can Manufacturers Institute

President: David Stern, Stern Can Co., Boston, Mass.
Executive vice-president: H. F. White, 1037 Shoreham Bldg., Washington 5, D. C.
Secretary-treasurer: C. E. Sifton, 5013 Lincoln Bldg., New York 17, N. Y.
Director of Marketing Bureau: Harold H. Jaeger, 60 E. 42nd St. New York 17, N. Y.

Canning Machinery & Supplies Association

President: Hal W. Johnston, Stecher-Traung Lithograph Corp., Rochester, N. Y.
Vice-president: E. N. Funkhouser, Dewey & Almy Chemical Corp., Cambridge, Mass.
Secretary-treasurer: W. D. Lewis, Box 5926, Washington 14, D. C.

The Forty-Niners

President: Robert A. Sindall Jr., A. K. Robins & Co., Inc., Baltimore, Md.
Vice-president: C. M. Carlson, FOOD PACKER, 139 N. Clark St., Chicago 2, Ill.
Secretary: M. R. Feeney, Lansing B. Warner Inc., Chicago, Ill.

Frozen Food Distributors Association of California, Inc.

President: Paul Ciampi, Marin Produce Co., San Rafael, Calif.
Vice-president: H. C. Epperson, The Union Ice Co., San Francisco, Calif.
Secretary-treasurer: M. E. Hurst, Allied Produce Co., San Francisco, Calif.
Executive secretary: Harry Lerner, Harry Lerner & Associates, 681 Market St., San Francisco 5, Calif.

Glass Container Manufacturers Institute, Inc.

President: Howard C. Herber, Pierce Glass Co., Port Allegany, Pa.
Vice-president: J. M. Foster, Foster-Forbes Glass Co., Marion, Ind.
Secretary-treasurer: H. W. Kuni, 8 W. 40th St., New York 18, N. Y.
General Manager: Victor L. Hall, 8 W. 40th St., New York 18, N. Y.

Grocery Manufacturers of America, Inc.

President: Paul S. Willis, 205 E. 42nd St., New York 17, N. Y.
Vice-president: G. H. Coppers, National Biscuit Co., New York, N. Y.
Secretary: W. A. Dolan, Wilbert Products Co., Inc., New York, N. Y.
Treasurer: B. E. Snyder, R. B. Davis Co., Hoboken, N. J.

Institute of Food Technologists

President: Berton S. Clark, American Can Co., Maywood, Ill.
President-elect: Philip K. Bates, Carnation Co., 8015 Van Nuys Blvd., Van Nuys, Calif.
Executive secretary: C. S. Lawrence, 176 W. Adams St., Chicago 3, Ill.
Treasurer: Aksel G. Olson, General Foods Corp., 1125 Hudson St., Hoboken, N. J.

International Association of Milk & Food Sanitarians, Inc.

President: H. J. Barnum, City Health Dept., Denver, Colo.
President-elect: J. D. Faulkner, Milk & Food Branch, U. S. Public Health Service, Washington 25, D. C.
Vice-president: I. E. Parkin, Pennsylvania State College, State College, Pa.
Secretary-treasurer: H. H. Wilkowske, University of Florida, Gainesville, Fla.
Executive secretary: H. H. Thomasson, P. O. Box 437, Shelbyville, Ind.

Label Manufacturers National Association

President: H. F. Scheetz Jr., Fuller Label & Box Co., Pittsburgh, Pa.
Vice-president: R. A. Ritter, Calvert Lithographing Co., Detroit, Mich.
Treasurer: T. C. Nevins Jr., Nevins-Church Press, Clifton, N. J.
Executive director: Oscar Whitehouse, 1700 Eye St., N. W., Washington, D. C.

Mayonnaise & Salad Dressing Manufacturers Association, Inc.

President: O. C. Turner, Morton Foods, 6333 Denton Dr., Dallas, Texas
Treasurer: Paul T. Frisch, McCormick & Co., Light and Barr Sts., Baltimore, Md.
Executive secretary: Emmet J. Martin, 100 E. Ohio St., Chicago 10, Ill.

National Agricultural Chemicals Association

President: Arthur W. Mohr, California Spray-Chemical Corp., Richmond, Calif.
Vice-president: Paul Mayfield, Naval Stores Dept., Hercules Powder Co., Inc., Wilmington, Del.
Executive secretary: L. S. Hitchner, 910 –17t7h St., N. W., Washington 6, D. C.

National-American Wholesale Grocers Association

President: French Fox, Fox Grocery Co., Charleroi, Pa.
Executive vice-president: M. H. Toulme, 60 Hudson St., New York 13, N. Y.
Secretary: R. B. Johnson, 60 Hudson St., New York 13, N. Y.
Treasurer: J. S. Seeman, Seeman Bros., Inc., New York, N. Y.

National Association of Food Chains

President: John A. Logan, 726 Jackson Place, N. W., Washington 6, D. C.
Chairman of board of directors: G. L. Clements, Jewel Tea Co., Inc., Chicago, Ill.
Secretary: Henry Schaffer, Schaffer Stores Co., Inc., Schnectady, N. Y.
Treasurer: R. F. Burkard, First National Stores, Inc., Sommerville, Mass.

National Association of Frozen Food Packers

President: M. K. Spiegl, Spiegl Farms, Inc., Salinas, Calif.
Vice-president: J. L. Baxter, H. C. Baxter & Bro., Brunswick, Maine
Secretary-manager: L. S. Martin, 1415 K St., N. W., Washington 5, D. C.

National Association of Retail Grocers

President: V. L. Browner, 360 N. Michigan Av., Chicago 1, Ill.
Vice-president: A. V. Hokanson, 200 Franklin St., Porter, Ind.
Secretary-manager: Mrs. Marie Kiefer, 360 N. Michigan Ave., Chicago 1, Ill.
Treasurer: J. J. Dratt, P. O. Box 7, Highland Springs, Va.

National Canners Association

President: Louis Ratzesberger Jr., Illinois Canning Co., Hoopeston, Ill.
Vice-president: E. E. Willkie, Pacific-American Fisheries, Inc., Bellingham, Wash.
Executive secrtary-treasurer: Carlos Campbell, 1133 20th St., N. W., Washington 6, D. C.

National Fisheries Institute, Inc.

President: F. M. Bundy, Gorton-Pew Fisheries Co., Ltd., Gloucester, Mass.
Vice-president: L. V. Drape, Louis A. Drape, Inc., Fall River, Mass.
Secretary: J. W. Willis, Marine Products Co., San Diego, Calif.
Treasurer: F. W. Wilkisson, Frank W. Wilkisson, Inc., New York, N. Y.
General Manager: C. E. Jackson, 1614 20th St., N. W., Washington 9, D. C.

National Food Brokers Association

National chairman: E. Norton Reusswig, Lestrade Bros., New York, N. Y.
President: Watson Rogers, 527 Munsey Bldg., Washington 4, D. C.
Treasurer: Harry E. Cook, Harry B. Cook Co., Baltimore, Md.

National Wholesale Frozen Food Distributors Association

President: Joseph Gaudio, Gaudio Bros., Camden, N. J.
Secretary: Carlton Eacho, Washington Frosted Foods, 415 10th St., S. W., Washington, D. C.
Treasurer: Howard Jester, Howard Jester, Inc., Wilmington, Del.

Old Guard Society

President: Harry K. Stansbury, A. K. Robins & Co., Inc., Baltimore, Md.
Vice-president: Ogden Sells, San Jose, Calif.
Secretary-treasurer: John Dingee, Crown Can Co. Philadelphia, Pa.

Packaging Machinery Manufacturers Institute, Inc.

President: E. H. Schmitz, Standard-Knapp Div., Emhart Mfg. Co., Portland, Conn.
Vice-president: S. C. Markley, Comas Machine Co., Salem, Va.
Secretary-treasurer: H. L. Stratton, 342 Madison Ave., New York, 17, N. Y.

Super Market Institute

President: S. N. Goldman, Standard-Humpty Dumpty Super Markets, Oklahoma City, Okla.
Vice-president: R. E. Dillon, J. S. Dillon & Sons Stores Co., Hutchinson, Kansas
Secretary: N. W. Lurie, Wrigley Stores, Inc., Detroit, Mich.
Treasurer: W. E. Brown, Big Bear Stores Co., Columbus, Ohio
Executive director: Don Parsons, 500 N. Dearborn St., Chicago 10, Ill.

Tomato Council, Inc.

President: Harvey Jarboe, Harrison & Jarboe, Sherwood, Md.
Vice-president: R. W. Phillips, J. Richard Phillips Jr. & Sons, Inc., Berlin, Md.
Secretary: J. W. Rue, Masonic Bldg., Easton, Md.
Treasurer: Chas. St. Clair, D. E. Foote & Co., Inc., Baltimore, Md.

U. S. Wholesale Grocers Association

President: Harry D. Shuford, Moore Grocery Co., Tyler, Texas
Executive vice-president: H. O. Smith Jr., 1511 K St., N. W., Washington 5, D. C.
Secretary: R. H. Rowe, 1511 K. St., N. W., Washington 5, D. C.
Treasurer: Van Salley, Salley Grocery Co., Bernice, La.

Young Guard Society

President: G. A. Schanbacher, H. S. Crocker Co., Inc., Chicago, Ill.
Vice-president: R. W. Jensen, Varney Canning Co., Roy, Utah
Secretary: Herbert Shek, H. S. Crocker Co., Inc., Baltimore, Md.
Treasurer: Robert W. Mairs, Winter Garden Citrus Products Cooperative, Winter Garden, Fla.

PROCESSING
equipment & materials
DIRECTORY

Buyers' guide to . . . .

Section A ● Production and Processing Equipment

Section B ● Packaging Equipment and Supplies

Section C ● Canner's Acreage Machinery and Supplies

Section D ● Food Ingredients and Raw Materials

Section E ● Freezing Equipment and Supplies

Section F ● Plant Maintenance, Sanitation and Operating Supplies

Section G ● Quality Control Equipment and Laboratory Supplies

Section H ● Special Services

Section A

production and processing equipment

1. ACCUMULATING TABLES

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N.Y.
Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.
Island Equipment Corp., 27-01 Bridge Plaza N, Long Island City 1, N.Y.
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N.Y.

2. AGITATORS, STIRRERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Damrow Bros. Co., 196 Western Ave., Fond du Lac, Wis.
Groen Mfg. Company, 4535 Armitage Avenue, Chicago 39, Illinois.
Mixing Equipment Co., Inc., 207 Mt. Read Blvd. Rochester, N. Y.
United Co., The, Tuc Rd., Westminster, Md.

3. AUTOCLAVES

Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill.
Koven & Brother, Inc., L. O., 154 Ogden Avenue, Jersey City 7, New Jersey
Robins & Co., A. K., Inc., 713-729 E. Lombard St., Baltimore 2, Md.

4. BASKETS—Dipping

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Cambridge Wire Cloth Co., Box 399, Cambridge, Maryland
Groen Mfg. Company, 4535 Armitage Avenue, Chicago 39, Illinois.

5. BEAN SNIPPING MACHINES

Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose, Calif. or Hoopeston, Ill.

6. BEARINGS—Ball

Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.
SKF Industries, Inc., P.O. Box 6731, Philadelphia 32, Pa.

7. BEARINGS—Roller

Chain Belt Co., 4647 W. Greenfield Ave., Milwaukee 1, Wis.
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.
SKF Industries, Inc., P.O. Box 6731, Philadelphia 32, Pa.

8. BEATERS—Mixers and Whippers

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

9. BEET TOPPERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

10. BELTING—Chain Transmission

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chain Belt Co., 4647 W. Greenfield, Milwaukee 1, Wis.

11. BELTING—Leather Transmission

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.

12. BELTING—Plastic Coated

Buffalo Weaving & Belting Co., 260 Chandler St., Buffalo 7, N. Y.

13. BELTING—Rubber Transmission

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Fabreeka Products Co., 222 Summer St., Boston 10, Mass.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.

14. BELTS—"V"

Gilmer Company, L. H., Div. of United States Rubber Co., Tacony, Philadelphia 35, Pennsylvania
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
Link Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.

15. BLANCHERS—Fruit and Vegetable

Allan Iron & Welding Works, Inc., 135 Murray St., Rochester 6, N. Y.
Berlin Chapman Co., Berlin, Wis.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., A. K., Inc., 713-729 E. Lombard St., Baltimore 2, Md.
The Scott Viner Co., 1224 Kinnear Rd., Columbus, Ohio

16. BLANCHING BASKETS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Robins & Co., A. K., Inc., 713-729 E. Lombard St., Baltimore 2, Md.

17. BOILER RETURN SYSTEMS

Acker Organization, Inc., W. M., 3167 Fulton St., Cleveland 9, Ohio
Cochrane Corp., 17th St. below Allegheny Ave., Philadelphia, Pa.
Mears-Kane-Ofeldt, Inc., P.O. Box 223, Bridgeport, Pa.

18. BOILERS—Steam

Ames Iron Works, Inc., Box W-2, Oswego, N. Y.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Clayton Mfg. Co., Box 550, El Monte, Calif.
Cleaver-Brooks Company, 326 E. Keefe Ave., Milwaukee 12, Wisconsin
Erie City Iron Works, Erie, Penn.
Johnston Bros., Inc., Ferrysburg, Mich.
Kewanee Boiler Corp., Kewanee, Ill.
Mears-Kane-Ofeldt, Inc., P.O. Box 223, Bridgeport, Pa.
Orr & Sembower Inc., Morgantown Rd., Reading, Pa.

19. BRINE MAKING MACHINES

Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
International Salt Co., Inc., Scranton 2, Pa.
Morton Salt Co., 120 S. La Salle St., Chicago 3, Ill.
United Co., The, Tuc Rd., Westminster, Md.

20. BRUSHES—Carbon and Graphite

Becker Brothers Carbon Co., 3450 S. Laramie Ave., Cicero 50, Ill.
Keystone Carbon Co., St. Marys, Pa.

21. BUCKET ELEVATORS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
The Jeffrey Mfg. Co., 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

22. BURNERS

Cleaver-Brooks Co., 326 E. Keefe Ave., Milwaukee 12, Wis.

23. BURNERS—Industrial Gas

Erie City Iron Works, Erie, Pa.
Hauck Mfg. Co., 124-136 Tenth St., Brooklyn 15, N. Y.
National Airoil Burner Co., 1286 E. Sedgley Ave., Philadelphia 34, Pa.

24. BURNERS—Industrial Oil

Cleaver-Brooks Co., 326 E. Keefe Ave., Milwaukee 12, Wis.
Erie City Iron Works, Erie, Pa.
Hauck Mfg. Co., 124-136 Tenth St., Brooklyn 15, N. Y.
Johnston Brothers, Inc., Ferrysburg, Mich.
National Airoil Burner Co., 1286 E. Sedgley Ave., Philadelphia 34, Pa.

25. CAN SHAKING MACHINES

Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
United Co., The, Tuc Rd., Westminster, Md.

26. CAN TESTING MACHINES

Baldwin-Lima-Hamilton Corp., Hamilton, O.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, N. Y.

27. CAN WASHING MACHINES

Barry-Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chain Belt Co., 4647 W. Greenfield Milwaukee 1, Wis.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., A. K., Inc., 713-729 E. Lombard St., Baltimore 2, Md.

28. CHAIN—Conveyor and Elevator

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.

29. CHAIN—Power Transmission

Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.

30. CHUTES—Straight or Spiral

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Standard Conveyor Co., North St. Paul 9, Minn.

31. CLEANERS—Bean (Raw Product)

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Nnagara Falls, N. Y.

32. CLEANERS—Corn (Raw Product)

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.
Sheboygan Machine Co., Sheboygan, Wis.
The United Co., Tuc Road, Westminster, Md.

33. CLEANERS—Pea (Raw Product)

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

34. CLEANERS—Spinach (Raw Product)

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

35. CLEANERS—Vine (Raw Product)

Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.

36. COILS—Pipe

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio
Crane Co., 836 S. Michigan, Chicago 5, Ill.
Groen Mfg. Company, 4535 Armitage Avenue, Chicago 39, Illinois.
Hamilton Copper & Brass Works, 820 State Ave., Cincinnati 4, Ohio

37. COILS—Syrup Tanks

Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N.Y.
Groen Mfg. Company, 4535 Armitage Avenue, Chicago 39, Illinois.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

38. COMMINUTING MACHINES

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
W. J. Fitzpatrick Co., The, 1001 W. Washington Blvd., Chicago 7, Ill.
The United Co., Tuc Rd., Westminster, Md.

39. COMPRESSORS—Stationary Air

Quincy Compressor Co., 217 Maine St., Quincy, Ill.

40. CONDENSERS—Surface, Jet and Barometric

The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

41. CONTROLLERS—Automatic

Cramer Co., R. W., Centerbrook, Conn.
Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill.
Minneapolis - Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia, Pa.
Tagliabue Instruments Div., Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York

42. CONTROLLERS—Time Cycle

Cramer Company, Inc., R. W., Centerbrook, Connecticut
Lumenite Electrical Co., 407 S. Dearborn St., Chicago 5, Ill.
Minneapolis - Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia, Pa.
Seely Instrument Co., 377 Fourth St., Niagara Falls, N. Y.
Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N.J.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York

43. CONTROLS–Boiler Water Level

Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill.

44. CONTROLS–Density

Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.

45. Controls–Fluid Flow

Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York

46. CONTROLS–Humidity

Minneapolis - Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia, Pa.
Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.

47. CONTROLS–Liquid Level

B/W Controller Corporation, 2200 E. Maple, Birmingham, Michigan
Lumenite Electronic Company, 407 S. Dearborn St., Chicago 5, Illinois
Manning, Maxwell & Moore, Inc., 11 Elias Street, Bridgeport 2, Conn
Minneapolis - Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia, Pa.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York
United Electric Controls Co., 85 School St., Watertown, Mass.

48. CONTROLS–Pressure and Vacuum

Seely Instrument Company, 377 Fourth St., Niagara Falls, N.Y.
Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York
United Electric Controls Co., 85 School St., Watertown, Mass.

49. CONTROLS–Temperature

Minneapolis - Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia, Pa.
Seely Instrument Company, 377 Fourth St., Niagara Falls, N.Y.
Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York
United Electric Controls Co., 85 School St., Watertown, Mass.
Wiegand Co., Edwin L., 7760 Thomas Blvd., Pittsburgh 8, Pa.

50. CONVEYOR BELTING–Fabric

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Buffalo Weaving & Belting Co., 260 Chandler St., Buffalo 7, N. Y.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.

51. CONVEYOR BELTING–Metallic

Bridge Food Machinery Co., 7124 James St. Philadelphia 35, Pa.
Cambridge Wire Cloth Company, Delaware Ave., Cambridge, Maryland
Metalsmiths Div., Orange Roller Bearing Co., Inc., 560 White St., Orange, N.J.
Steel Belt Conveyor Div., Sandvik Steel, Inc., 111 Eighth Ave., New York 11, N. Y.

52. CONVEYOR BELTING–Rubber

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Buffalo Weaving & Belting Co., 260 Chandler St., Buffalo 7, N. Y.
Canning Machinery Co., 4525 S. W. Lee St., Portland 19, Ore.
Fabreeka Products Co., 222 Summer St., Boston 10, Mass.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.

53. CONVEYORS–Apron and Slat

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Buschman Co., The E. W., 4493 Clifton Ave., Cincinnati 32, Ohio
Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.

54. CONVEYORS–Belt

Island Equipment Corp., 27-01 Bridge Plaza N., Long Island City 1, N.Y.

55. CONVEYORS–Belt and Elevators

Able Engineering Inc., 607 22nd Ave. NE, Minneapolis 18, Minn.
Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Berlin Chapman Co., Berlin, Wis.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
The E. W. Buschman Co., 4493 Clifton Ave., Cincinnati 32, Ohio
Canning Machinery Co., 4525 S. W. Lee St., Portland 19, Ore.
Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Fabreeka Products Co., 222 Summer St. Boston 10, Mass.
Jeffrey Mfg. Company, 906 N. Fourth Street, Columbus 16, Ohio
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.
Metzgar Co., 412 Douglas N.W., Grand Rapids 4, Mich.
Rapids-Standard Co., 510 Peoples Natl. Bank Bldg., Grand Rapids 2, Mich.
Standard Conveyor Company, North St Paul 9, Minnesota
Steel Belt Conveyor, Div., Sandvik Steel, Inc., 111 Eighth Ave., New York 11, N. Y.
The Trescott Co., Inc., Fairport, N.Y.

56. CONVEYORS–Bucket and Elevators

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Buschman Co., The E. W., 4493 Clifton Ave., Cincinnati 32, Ohio
Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Counsel Machine Co., Inc., 8 Hathaway St., Wallington, N. J.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
Jeffrey Mfg. Company, 906 N. Fourth Street, Columbus 16, Ohio
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.
Robins & Co., A. K., Inc., 713-729 E. Lombard St., Baltimore 3, Md.

57. CONVEYORS–Chain

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Barry-Wehmiller Machinery Co., 4660 W. Florrisant Ave., St. Louis 15, Mo.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Buschman Co., The E. W., 4493 Clifton Ave., Cincinnati 32, Ohio
Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Cherry-Burrell Corporation, 427 W. Randolph Street, Chicago 6, Illinois
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore 24, Md.
Damrow Bros. Co., 196 Western Ave., Fond du Lac, Wis.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
Horix Mfg. Company, Corliss Station, Pittsburgh 4, Pennsylvania
Island Equipment Corporation 27-01 Bridge Plaza, N., Long Island City 1, New York
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.
The Jeffrey Mfg. Co., 906 N. 4th St., Columbus 16, Ohio
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.

58. CONVEYORS–Overhead Trolley

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Buschman Co., The E. W., 4493 Clifton Ave., Cincinnati 32, Ohio

59. CONVEYORS–Pneumatic or Steam Jet

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

60. CONVEYORS–Screw or Spiral

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

61. CONVEYORS–Shaking or Vibrating

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

62. CONVEYORS–Vertical

Buschman Co., The E. W., 4493 Clifton Ave., Cincinnati 32, Ohio

63. CONVEYORS–Wheel and Roller

Buschman Co., The E. W., 4493 Clifton Ave., Cincinnati 32, Ohio

64. COOKERS–Rendering and Retort

Allan Iron & Welding Works, Inc., 135 Murray St., Rochester 6, N. Y.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Canning Machinery Co., 4525 S. W. Lee St., Portland 19, Ore.
Chain Belt Co., 1647 W. Bruce St., Milwaukee 4, Wis.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.
Rietz Mfg. Co., 180 Todd Rd., Santa Rosa Calif.

65. COOLERS–Surface and Tubular

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Cherry-Burrell Corp., 427 West Randolph Street, Chicago 6, Illinois

Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.
Pfaudler Co., 1000 West Ave., Rochester 3, New York
Rietz Mfg. Co., 180 Todd Rd., Santa Rosa, Calif.
Robins & Co., A. K., Inc., 713-729 E. Lombard St., Baltimore 2, Md.

66. CORN BLENDERS—Mixed Type

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
The United Co., Tuc Road, Westminster, Md.

67. CORN BRUSHERS

Food Machinery and Chemical Corp., Canning Machinery Div., San Jose, Calif., or Hoopeston, Ill

68. CORN COB CRUSHERS

Jeffrey Mfg. Company, 906 North Fourth Street, Columbus 16, Ohio

69. CORN COB TRIMMERS

The United Co., Tuc Road, Westminster, Md.

70. CORN CUTTERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
The United Co., Tuc Road, Westminster, Md.

71. CORN (CUT) ELEVATORS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Robins & Co., A. K., Inc., 713-729 E. Lombard St., Baltimore 2, Md.
The United Co., Tuc Road, Westminster, Md.

72. CORN GRADERS—Cream Style

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
United Co., The, Tuc Rd., Westminster, Md.

73. CORN HUSKERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
The United Co., Tuc Road, Westminster, Md.

74. CORN PREHEATERS—Batch

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
The United Co., Tuc Road, Westminster, Md.

75. CORN SILKERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N.Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.
The United Co., Tuc Rd., Westminster, Md.

76. COUPLINGS—Flexible

Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.

77. CRATES—Retort

Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

78. CUTTERS—Asparagus

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

79. CUTTERS—Bean

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

80. CUTTERS—Beet

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

81. CUTTERS—Corn

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
The United Co., Tuc Road, Westminster, Md.

82. CUTTERS—Pickle

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

83. CUTTERS—Potato Chip

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

84. CUTTERS—Rotary Knife

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

85. DEAERATORS

Barnes Co., W. F., & John, 301 S. Water St., Rockford, Ill.
Chain Belt Company, 4647 Greenfield, Milwaukee 1, Wis.
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.
Pfaudler Company, 1000 West Ave., Rochester 3, New York

86. DEMINERALIZERS (Water)

Cochrane Corp., 17th St. below Allegheny Ave., Philadelphia, Pa.
Elgin Softener Corp., 134 N. Grove Ave., Elgin, Ill.

87. DICERS—Fruit and Vegetable

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

88. DICERS—Meat, all types

Urschel Laboratories, Inc., 158 So. Napoleon St., Valparaiso, Ind.

89. DISPENSERS—Monosodium Glutamate

Accent (International Minerals & Chemical Corp.) 20 N. Wacker Dr., Chicago 6, Ill.

90. DISPENSERS—Salt grain

Morton Salt Co., 120 S. La Salle St., Chicago 3, Ill.

91. DISPENSERS—Salt Tablet

Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Scientific Tablet Co., 1530 Hadley St., St. Louis 6, Mo.

92. DRIVES—Adjustable-Speed

Reliance Electric & Engineering Co., 1058 Ivanhoe Road, Cleveland 10, Ohio
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif.

93. DRIVES—Chain

Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.

94. DRIVES—Fluid

Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.

95. DRIVES—Gear

Cone-Drive Gears, Div. of Michigan Tool Co., 7171 E. McNichols Rd., Detroit 12, Mich.
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif.

96. DRYERS—Infra-red Ray and Lamps

Wiegand Co., Edwin L., 7760 Thomas Blvd., Pittsburgh 8, Pa.

97. DRYERS—Roller

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

98. DRYERS—Rotary

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

99. DRYERS—Spray

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

100. DRYERS—Tunnel Type

Cleaver-Brooks Company, 355 E. Keefe Street, Milwaukee 9, Wisconsin
Wiegand Co., Edwin L., 7760 Thomas Blvd., Pittsburgh 8, Pa.

101. DRYERS—Vacuum

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

102. DUMPERS AND UNLOADERS

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Kewanee Mach. & Conveyor Co., 1516 Burlington Ave., Kewanee, Ill.

103. DUST COLLECTORS

Stanley Co., Inc., Wm. W., 401 Broadway, New York 13, N. Y.

104. ECCENTRICS—Screen and Vibrator

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
United Co., The, Tuc Rd., Westminster, Md.

105. ELEVATORS—Portable Stacking

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Canning Machinery Co., 4525 S.W. Lee St., Portland 19, Ore.
Island Equipment Corp., 101 Park Ave., New York 17, N. Y.
Standard Conveyor Company, North St. Paul 9, Minnesota
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

106. ENGINES—Diesel

Baldwin-Lima-Hamilton Corp., Hamilton, O.

107. ENGINES—Steam

Erie City Iron Works, Erie, Pa.

108. EVAPORATORS—Multiple Effect

The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

109. EVAPORATORS—Single Effect

Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.

110. EVAPORATORS—Vacuum

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Lee Metal Products Company, 408 Pine Street, Phillipsburg 8, Pennsylvania
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.
Pfaudler Company, 1000 West Ave., Rochester 3, New York

111. EXHAUSTERS—Steam, Hot Water

Barry-Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.
Berlin Chapman Co., Berlin, Wis.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Canning Machinery Co., 4525 S.W. Lee St., Portland 19, Ore.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N.Y.
Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

112. EXTRACTORS—Juice, Pulper

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
Langsenkamp Company, F. H., 229 E. South Street, Indianapolis, Ind.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

113. FANS—Centrifugal, Blower

The Jeffrey Mfg. Co., 906 N. 4th St., Columbus 16, Ohio

114. FEEDERS—Chemical

Gump Co., B. F., 1342 S. Cicero Ave., Chicago 50, Ill.
Jeffrey Mfg. Company, 906 North Fourth Street, Columbus 16, Ohio

115. FILTER AIDS

Cellulo Co., The, P.O. Box 686, Sandusky, Ohio
Great Lakes Carbon Corp., Dicalite Div., 612 S. Flower St., Los Angeles 14, Calif.
Johns-Manville Corp., 22 E. 40th St., New York, N. Y.

116. FILTER CLOTH

Independent Filter Press Co., 232—48th St., Brooklyn, N. Y.
Stanley Co., Inc., Wm. W., 401 Broadway, New York 13, N. Y.

117. FILTERS—Cylinder Pressure

Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Independent Filter Press Co., 232—48th St., Brooklyn, N. Y.

118. FILTERS—Disc

Cellulo Co., The, P.O. Box 686, Sandusky, Ohio
Niagara Filter Corp., 3113 Main St., Buffalo 14, N. Y.
Sparkler Mfg. Co., Mundelein, Ill.

119. FILTERS—General Purpose

Cellulo Co., The, P.O. Box 686, Sandusky, Ohio
Commercial Filters Corp., 18 W. 3rd St., Boston 27, Mass.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.
Niagara Filter Corp., 3113 Main St., Buffalo 14, N. Y.
Sparkler Mfg. Co., Mundelein, Ill.
Tri-Clover Machine Co., Kenosha, Wis.

120. FILTERS—Gravity

Cochrane Corp., 17th St. below Allegheny Ave., Philadelphia, Pa.
Damrow Bros. Co., 196 Western Ave., Fond du Lac, Wis.

121. FILTERS—Leaf

Cellulo Co., The, P.O. Box 686, Sandusky, Ohio
Niagara Filter Corp., 3113 Main St., Buffalo 14, N. Y.

122. FILTERS—Sand Pressure Type

Elgin Softener Corp., 134 N. Grove Ave., Elgin, Ill.
Zero Water Softener Mfg. Co., 4985 Elston Ave., Chicago 30, Ill.

123. FITTINGS—Corrosion Resistant

Cherry-Burrell Corp., 427 West Randolph Street, Chicago 6, Illinois
Chisholm-Ryder Co., Inc., College a Highland Ave., Niagara Falls, N. Y
Crane Company, 836 South Michiga Avenue, Chicago 5, Illinois
The Pfaudler Co., 1000 West Ave Rochester 3, N. Y.
Tri-Clover Machine Co, Kenosha, Wis

124. FITTINGS—Malleable Iron and Steel

Crane Company, 836 South Michigan Avenue, Chicago 5, Illinois
Jefferson Union Company, 699-26th St., New York 1, N. Y.

125. FITTINGS—Stainless Steel

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N.Y.
Crane Co., 836 S. Michigan Ave., Chgo 5, Ill.
Tri-Clover Machine Co., Kenosha, Wis.

126. FRUIT CORERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.

127. GAUGES—Pressure and Vacuum

Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Weksler Thermometer Co., 52 W. Houston St., New York 12, N. Y.

128. GRADERS—Bean

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

129. GRADERS—Beet

Allan Iron & Welding Works, Inc., 135 Murray St., Rochester 6, N. Y.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.

130. GRADERS—Fruit

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Trescott Company, Fairport, New York

131. GRADERS—Lima Bean

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

132. GRADERS—Pea

Berlin Chapman Co., Berlin, Wis.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

133. GRADERS—Quality

Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.

134. GRATERS—Cheese

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Damrow Bros. Co., 196 Western Ave., Fond du Lac, Wis.
Aurelio Tanzi Corp., 430 Jefferson St., Brooklyn 37, N. Y.

135. GRATERS—Horseradish

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

136. GRINDERS—Fruit and Vegetable

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Rietz Mfg. Co., 180 Todd Rd., Santa Rosa, Calif.
United Co., The, Tuc Rd., Westminster, Md.

137. GRINDERS—Meat

Enterprise Mfg. Co., of Pa., Third & Dauphin Sts., Philadelphia 33, Pa.
Rietz Mfg. Co., 180 Todd Rd., Santa Rosa, Calif.
The United Co., Tuc Rd., Westminster, Md.

138. HEAT EXCHANGERS

Cherry-Burrell Corporation, 427 West Randolph Street, Chicago 6, Illinois
Creamery Package Mfg. Co., 1243 W. Washington Blvd., Chicago, Ill.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Cochrane Corp., 17th St. below Allegheny Ave., Philadelphia, Pa.
Hamilton Copper & Brass Works, 820 State Ave., Cincinnati 4, Ohio
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.
Pfaudler Company, East Avenue & Walter Street, Rochester 4, New York
Rietz Mfg. Co., 180 Todd Rd., Santa Rosa, Calif.

139. HEATERS—Commercial Immersion

Wiegand Co., Edwin L., 7760 Thomas Blvd., Pittsburgh 8, Pa.

140. HEATERS—Electric Space

Wiegand Co., Edwin L., 7760 Thomas Blvd., Pittsburgh 8, Pa.

141. HEATERS—Feed Water

Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N.J.

142. HEATERS—Instantaneous Water

Clayton Mfg. Co., Box 550, El Monte, Calif.
Cleaver-Brooks Co., 326 E. Keefe Ave., Milwaukee 12, Wis.
Kewanee Boiler Corp., Kewanee, Ill.
Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N.J.
Pick Mfg. Co., West Bend, Wis.

143. HEATERS—Unit

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Wiegand Co., Edwin L., 7760 Thomas Blvd., Pittsburgh 8, Pa.

144. HOISTS—Electric, Chain

Coffing Hoist Co., 800 Walter St., Danville, Ill.

145. HOISTS—Electric, Wire Rope

Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.

146. HOISTS—Hand, Chain

Coffing Hoist Co., 800 Walter St., Danville, Ill.

147. HOISTS—Monorail

Chisholm-Ryder Co., Inc., CRCO Div., College at Highland Aves., Niagara Falls, N. Y.

148. HOMOGENIZERS

Bridge Food Machinery Co., 124 James St., Philadelphia 35, Pa.
Cherry-Burrell Corporation, 427 West Randolph Street, Chicago 6, Illinois
The United Co., Tuc Road, Westminster, Md.

149. HOSE—Air, Steam or Water

American Brass Co., American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.

150. HOSE—Flexible Metallic

American Brass Co., American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn.

151. HOSE—Plastic

U. S. Stoneware Co., The, 60 E. 42nd St., New York 17, N.Y.

152. IDLERS—Belt Conveyor

Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Jeffrey Mfg. Company, 906 N. Fourth Street, Columbus 16, Ohio
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.

153. INDICATORS—Cooking

Aseptic Thermo Indicator Co., 5000 W. Jefferson Blvd., Los Angeles 16, Calif.

154. INDICATORS—Dry Material Level

Bin-Dicator Company, 13946 Kercheval Avenue, Detroit 15, Michigan

155. INDICATORS—Moisture Content

Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N.J.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.

156. INDICATORS—pH, Recorders

Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

157. INSTRUMENTS—Control, Optical

Bausch & Lomb Optical Co., 605 St. Paul St., Rochester, N. Y.

158. INSTRUMENTS—Humidity Indicating and Recording

The Foxboro Company, 38 Neponset Avenue, Foxboro, Massachusetts
Minneapolis - Honeywell, Industrial Div., Wayne & Windrim Aves, Philadelphia, Pa.
Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N.J.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Weksler Thermometer Co., 52 West Houston Street, New York 12, N. Y.

159. INSTRUMENTS—Liquid Flow

The Foxboro Company, 38 Neponset Avenue, Foxboro, Massachusetts
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York

160. INSTRUMENTS—Liquid Level

B/W Controller Corp., 2200 E. Maple, Birmingham, Mich.
The Foxboro Company, 38 Neponset Avenue, Foxboro, Massachusetts
Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York

161. INSTRUMENTS—Pressure, Vacuum

The Foxboro Company, 38 Neponset Avenue, Foxboro, Massachusetts
Tagliabue Corp., C. J., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York
Wallace & Tiernan Co., Box 178, Newark 1, N. J.
Weksler Thermometer Co., 52 W. Houston St., New York 12, N. Y.

162. INSTRUMENTS—Temperature

Electric Auto-Lite Company, Instrument & Gauge Div., Toledo 1, Ohio
Foxboro Company, 38 Neponset Avenue, Foxboro, Massachusetts
Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
Minneapolis - Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia, Pa.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York
Weksler Thermometer Co., 52 West Houston Street, New York 12, N. Y.
Weston Electrical Instrument Corp., 614 Frelinghuysen, Newark 5, N. J.

163. INVERTERS—Tray

Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.

164. IRRADIATORS—Carbon, Mercury Arc

Hanovia Chem. & Mfg. Co., Germicidal Equip. Div., 100 Chestnut St., Newark 5, N. J.

165. JUICE STRAINERS—Citrus

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.

166. JUICE STRAINERS—Tomatoes

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Langsenkamp Co., F. H., 229 E. South St., Indianapolis, Ind.

167. KETTLES—Brass and Copper

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper & Brass Works, 820 State Ave., Cincinnati 4, Ohio

168. KETTLES—Corrosion Resisting Alloy

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper & Brass Works, 820 State Ave., Cincinnati 4 ,Ohio
Koven & Brother, Inc., L. O., 154 Ogden Avenue, Jersey City 7, New Jersey
Lee Metal Products Company, 408 Pine Street, Philipsburg 8, Pennsylvania
Pfaudler Company, 1000 West Ave., Rochester 3, New York

169. KETTLES–Glass Lined

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Pfaudler Company, 1000 West Ave., Rochester 3, N. Y.

170. KETTLES–Iron and Steel

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Koven & Brother, Inc., L. O., 154 Odgen Ave., Jersey City 7, N.J.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

171. KETTLES–Mechanical Mixing

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chicago Stainless Equipment Corp., 5001 Elston Ave., Chicago 30, Ill.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper & Brass Works, 820 State Ave., Cincinnati 4, Ohio
Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.
Lee Metal Products Company, 408 Pine Street, Philipsburg 8, Pennsylvania
Pfaudler Company, 1000 West Ave., Rochester 3, New York
The United Co., Tuc Rd., Westminster, Md.

172. KETTLES–Steam Jacketed

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper & Brass Works, 820 State Ave., Cincinnati 4, Ohio
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.
Koven & Brother, Inc., L. O., 154 Ogden Avenue, Jersey City 7, New Jersey
Lee Metal Products Company, 408 Pine Street, Philipsburg 8, Pennsylvania
Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

173. KETTLES–Tilting

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper and Brass Works, 820 State Ave., Cincinnati 4, Ohio
Lee Metal Products Company, 408 Pine Street, Philipsburg 8, Pennsylvania
Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

174. KNIFE GRINDER– Corn Cutter

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
The United Co., Tuc Rd., Westminster, Md.

175. KRAUT CUTTERS (Chopped)

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

176. LAMPS–Bactericidal

Hanovia Chem. & Mfg. Co., 100 Chestnut St., Newark 5, N. J.

177. LAMPS–Mercury Vapor

Hanovia Chem. & Mfg. Co., 100 Chestnut St., Newark 5, N. J.

178. LIQUID AND PASTE FILLING MACHINES

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.
Pfaudler Company, 1000 West Ave., Rochester 3, New York

179. MACARONI EQUIPMENT

Aurelio Tanzi Corp., 430 Jefferson St., Brooklyn 37, N. Y.

180. MAGNETIC SEPARATORS

Cesco, 4025 Sepastopol Rd., Santa Rosa, Calif.
Homer Mfg. Co., 142 E. Pearl St., Lima, Ohio
Richmond Mfg. Co., Lockport, N.Y.

181. MATTING–Rubber

Buffalo Weaving & Belting Co., 260 Chandler St., Buffalo 7, N. Y.

182. MAYONNAISE–Mixers and Fillers

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
The Girdler Corp., Votator Division, 224 E. Broadway, Louisville 1, Ky.
Groen Mfg. Company, 4535 Armitage Avenue, Chicago 39, Illinois.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

183. METERS–Steam Flow

Foxboro Co., 38 Neponset Ave., Foxboro, Mass.

184. MILLS–Attrition

Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.

185. MILLS–Colloid

United Co., The, Tuc Rd., Westminster, Md.

186. MILLS–Hammer and Ring

Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.
The Jeffrey Mfg. Co., 906 N. 4th St., Columbus 16, Ohio
Myers-Sherman Co., Streator, Ill.
Sedberry, Inc., J. B., Franklin, Tenn.

187. MILLS–Mustard

Engineer Design Co., 70 Beaver St., New York, N. Y.

188. MILLS–Pebble and Ball

U. S. Stoneware Co., The, 60 East 42nd St., New York 17, N. Y.

189. MIXERS–Meat

Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.

190. MIXERS–Portable

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Mixing Equipment Co., Inc., 207 Mt. Read Blvd., Rochester, N. Y.

191. MOTORS–Electric

Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, O.
U. S. Electrical Motors, Inc., 200 East Slauson Ave., Los Angeles 54, Calif.

192. MOTORS–Gear

Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, O.

193. MOTORS–Hazardous Location

Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio

194. MOTORS–Hydraulic or Fluid

Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.
Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio

195. MOTORS–Splash Proof

Allis-Chalmers Mfg. Co., 1122 S. 70th St., Milwaukee 1, Wis.
Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif.

196. MOTORS–Totally Enclosed

Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio

197. NOODLE EQUIPMENT

Aurelio Tanzi Corp., 430 Jefferson St., Brooklyn 37, N. Y.

198. NOZZLES–Spray

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chain Belt Co., 4647 W. Greenfield Ave., Milwaukee 1, Wis.
Spraying Systems, Co., 3201 Randolph St., Bellwood, Ill.

199. PACKING–Rubber

Buffalo Weaving & Belting Co., 260 Chandler St., Buffalo 7, N.Y.

200. PASTEURIZERS–Bottle, Can

Barry-Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Canning Machinery Co., 4525 S.W. Lee St., Portland 19, Ore.
Island Equip. Corp., 27-01 Bridge Plaza N., Long Island City 1, N. Y.
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.

201. PASTEURIZERS, PREHEATERS

Barry Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.

Damrow Bros. Co., 196 Western Ave., Fond du Lac, Wis.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.
Walker-Wallace, Inc., 1370 Main St., Buffalo 9, N. Y.

202. PEA BOXES—Metal

Hamachek Machine Co., Frank, 97 Ellis St., Kewaunee, Wis.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

203. PEA STORAGE HOPPERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

204. PEELERS—Fruit and Vegetable

Allan Iron & Welding Works, Inc., 135 Murray St., Rochester 6, N. Y.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

205. PEELING TABLES—Belt

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

206. PEELING TABLES—Chain

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

207. PEELING TABLES—Roller

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

208. PIPE—Sanitary and Fittings

The Youngstown Sheet & Tube Co., Stambaugh Bldg., Youngstown 1, O.

209. PIPE—Corrosion Resistant

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
Cherry-Burrell Corporation, 427 West Randolph Street, Chicago 6, Illinois
U. S. Stoneware Co., The, 60 E. 42nd St., New York 17, N. Y.
The Youngstown Sheet & Tube Co., Stambaugh Bldg., Youngstown 1, O.

210. PIPE—Glass Lined and Fittings

Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

211. PITTING MACHINES—Cherries

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.

212. PITTING MACHINES—Olives

Bridge Food Machinery Co., 7124 James St., Philadelphia 25, Pa.

213. PITTING MACHINES—Peaches

Boutell Mfg. Co., Inc., 558 Lyell Ave., Rochester 6, N. Y.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Food Machinery and Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.

214. PRESSES—Cider

Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.

215. PRESSES—Filter

Cellulo Co., The, P.O. Box 686, Sandusky, Ohio
Niagara Filter Corp., 3113 Main St., Buffalo 14, N. Y.

216. PRESSES—Oil Extracting

Enterprise Mfg. Co. of Pa., Third and Dauphin Sts., Philadelphia 33, Pa.

217. PROPORTIONING EQUIPMENT

Wallace & Tiernan Co., Box 178, Newark 1, N. J.

218. PUMPS—Boiler Feed

Byron Jackson Co., P. O. Box 2017, Terminal Annex, Los Angeles 54, Cal.

219. PUMPS—Centrifugal

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Tri-Clover Machine Co., Kenosha, Wis.

220. PUMPS—Corrosion Resistant

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Foster Pump Works, Inc., 50-A Washington St., Brooklyn 1, N. Y.
Jabsco Pump Co., 2031 Lincoln St., Burbank, Calif.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.
Tri-Clover Machine Co., Kenosha, Wis.
The U. S. Stoneware Co., 60 E. 42nd St., New York 17, N. Y.
Waukesha Foundry Co., Waukesha, Wis.

221. PUMPS—Hydro

Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.

222. PUMPS—Positive Displacement

Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.

223. PUMPS—Rotary Displacement

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Foster Pump Works, Inc., 50-A Washington St., Brooklyn 1, N. Y.
Granberg Corp., 1308 67th St., Oakland 8, Calif.
Jabsco Pump Co., 2031 N. Lincoln St., Burbank, Calif.
Waukesha Foundry Co., Lincoln Ave., Waukesha, Wis.

224. PUMPS—Sanitary

Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.

225. PUMPS—Sump

Byron Jackson Co., P. O. Box 2017, Terminal Annex, Los Angeles 54, Calif.
Jabsco Pump Co., 2031 N. Lincoln St., Burbank, Calif.

226. PUMPS—Vacuum

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

227. PUMPS—Viscous Liquids

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Clayton Mfg. Co., Box 550, El Monte, Calif.
Foster Pump Works, Inc., 50-A Washington St., Brooklyn 1, N. Y.
Granberg Corp., 1308 67th St., Oakland 8, Calif.
Jabsco Pump Co., 231 N. Lincoln St., Burbank, Calif.
Tri-Clover Machine Co., Kenosha, Wis.

228. RAVIOLI EQUIPMENT

Aurelio Tanzi Corp., 430 Jefferson St., Brooklyn 37, N. Y.

229. RECORDERS—Scale Weight

Fairbanks, Morse & Co., Fairbanks-Morse Building, Chicago 5, Ill.

230. REDUCERS—Speed

Cone-Drive Gears, Div. of Michigan Tool Co., 7171 E. McNichols Rd., Detroit 12, Mich.

231. RELAYS—Photo-Electric

Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill.

232. RETORT CRATE LOADERS

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Canning Machinery Co., 4525 S.W. Lee St., Portland 19, Ore.
Rosenberg Elevator Co., F., Canning Mchry Div., 3745 N. Richards St., Milwaukee 12, Wis.

233. RETORTS—Steam Pressure

Berlin Chapman Co., Berlin, Wis.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Canning Machinery Co., 4525 S.W. Lee St., Portland 19, Ore.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

234. SCALDERS—Fruit and Vegetable

Allan Iron & Welding Works, Inc., 135 Murray St., Rochester 6, N. Y.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
The Jeffrey Mfg. Co., 906 N. 4th St., Columbus 16, Ohio
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

235. SCALERS—Fish

Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.

236. SCALES–Counter and Platform

Exact Weight Scale Co., 944 W. Fifth Ave., Columbus 8, Ohio
Fairbanks, Morse & Co., Fairbanks-Morse Building, Chicago 5, Ill.

237. SCREENS–Vibrating

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Jeffrey Mfg. Company, 906 North Fourth Street, Columbus 16, Ohio
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.
Productive Equipment Corp., 2926 W. Lake St., Chicago 12, Ill.
Reinhardt Co., H. A., 77 Church St., Newton, Ohio
Richmond Mfg. Co., Lockport, N. Y.
Scott Viner Co., 1224 Kinnear Rd., Columbus, Ohio
Sweco Separator Div., Southwestern Engineering Co., 4800 Santa Fe Ave., Los Angeles 11, Calif.

238. SEPARATORS–Fruit and Vegetable

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.
United Co., The, Tuc Rd., Westminster, Md.

239. SHEETS–Aluminum

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.

240. SHEETS–Corrosion Resistant

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
The U. S. Stoneware Co., 60 E. 42nd St., New York 17, N. Y.

241. SIEVES–Vibrating

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Richmond Mfg. Co., Lockport, N. Y.

242. SIFTERS AND BLENDERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Gump Co., B. F., 1342 S. Cicero Ave., Chicago 50, Ill.
Richmond Mfg. Co., Lockport, N. Y.

243. SLICING AND DICING MACHINES–Apples, Beans, Beets, Pickles, Celery

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.
Slice-Chief Co., P. O. Box 257MO, Toledo, Ohio
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Indiana

244. SLICING MACHINES–Fruit

Boutell Mfg. Co., Inc., 558 Lyell Ave., Rochester 6, N. Y.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Reinhardt Co., H. A., 77 Church St., Newtown, Ohio
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

245. SLICING MACHINES–Meat

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

246. SPAGHETTI EQUIPMENT

Aurelio Tanzi Corp., 430 Jefferson St., Brooklyn 37, N. Y.

247. SPOUTS–Magnetic, Pulleys

Richmond Mfg. Co., Lockport, N. Y.

248. SPROCKETS–Chain

Chain Belt Co., 4647 W. Greenfield, Milwaukee 1, Wis.
Frank Hamachek Machine Co., 97 Ellis St., Kewaunee, Wis.
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.

249. STACKING MACHINES–Case

Clark Tructractor Div. of Clark Equipment Co., Battle Creek 66, Mich.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

250. STEMMERS–Cherry

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

251. STILLS

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper & Brass Works, 820 State Ave., Cincinnati 4, Ohio
Lee Metal Products Company, 408 Pine Street, Philipsburg 8, Pennsylvania

252. STRAINERS–Pipe and Scale Traps

Spraying Systems Co., 3201 Randolph St., Bellwood, Ill.

253. STRAINERS AND FILTERS

Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.

254. STRIP-CUTTERS

Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Urschel Laboratories, Inc., 158 S. Napoleon St., Valparaiso, Ind.

255. SUGAR MIXERS–Fruit

Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.
Reinhardt Co., H. A., 77 Church St., Newtown, Ohio

256. SWITCHES–Float

Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.

257. SWITCHES–Thermostat Controlled

George Ulanet Co., 413 Market St., Newark 5, N. J.

258. SYRUPERS–Briners

Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.

259. TACHOMETERS–Centrifugal

Zernickow Company, O., 15 Park Row, New York 38, New York

260. TACHOMETERS–Chronometric

Zernickow Co., O., 15 Park Row, New York 38, New York

261. TACHOMETERS–Electric

Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio

262. TANKS–Brass and Copper

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper & Brass Works, Inc. 820 State Ave., Cincinnati 4, Ohio

263. TANKS–Corrosion Resistant

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio
Berlin Chapman Co., Berlin, Wis.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Damrow Bros. Co., 196 Western Ave., Fond du Lac, Wis.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Hamilton Copper & Brass Works, Inc., 820 State Ave., Cincinnati 4, Ohio
Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.
F. H. Langsenkamp Co., 229 E. South St., Indianapolis, Ind.
Lee Metal Products Company, 408 Pine Street, Philipsburg 8, Pennsylvania
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.
Pfaudler Company, 1000 West Ave., Rochester 3, New York
U. S. Stoneware Co., The, 60 E. 42nd St., New York 17, N. Y.

264. TANKS–Earthenware

U. S. Stoneware Co., The, 60 East 42nd St., New York 17, N. Y.

265. TANKS–Glass Lined

Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.
Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

266. TANKS–Iron and Steel

Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.
Kewanee Boiler Corp., Kewanee, Ill.
Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.

267. TANKS–Stainless Steel

Langsenkamp Co., F. H., 229 E. South St., Indianapolis, Ind.

268. TANKS–Wood

Amos H. Hall & Sons, 5500 North Water Street, Philadelphia 20, Pa.
Hauser-Stander Tank Co., 4838 Spring Grove Avenue, Cincinnati 32, Ohio
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.

269. TENDEROMETERS

Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.

270. THERMOMETERS—Indicating

Electric Auto-Lite Co., Instrument & Gauge Div., Toledo 1, Ohio
Minneapolis-Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia, Pa.
Palmer Thermometers, Inc., 2524 Norwood Ave., Cincinnati 12, Ohio
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York
Weksler Thermometer Co., 52 West Houston Street, New York 12, N. Y.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, New Jersey

271. THERMOSTATS

Fenwal, Inc., 217 Pleasant St., Ashland, Mass.

272. THERMOSTATS—Room

Wiegand Co., Edwin L., 7760 Thomas Blvd., Pittsburgh 8, Pa.
United Electric Controls Co., 85 School St., Watertown, Mass.

273. TIMERS—Portable Switching

Cramer Company, Inc., R. W., Centerbrook, Connecticut
Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill.
Northwestern Clock Company, 703 S. 16th St., Omaha, Nebraska

274. TIMERS—Stop and Repeat Cycle

Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill.
Northwestern Clock Co., 703 S. 16th St., Omaha, Neb.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

275. TOMATO CHOPPERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
F. H. Langsenkamp Co., 229 E. South St., Indianapolis, Ind.

276. TOMATO CORERS

Urschel Laboratories, Inc., Valparaiso, Ind.

277. TOMATO PULP COOKERS

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Langsenkamp Co., F. H., 229 E. South St., Indianapolis, Ind.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.
Rietz Mfg. Co., 180 Todd Rd., Santa Rosa, Calif.

278. TOMATO PULP TANKS

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Langsenkamp Co., F. H., 229 E. South St., Indianapolis, Ind.

279. TOMATO PULPERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Langsenkamp Co., F. H., 229 E. South St., Indianapolis, Ind.
Rietz Mfg. Co., 180 Todd Rd., Santa Rosa, Calif.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

280. TOMATO PUMP TANKS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.

281. TOMATO SCALDERS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

282. TRANSMISSIONS—Variable Speed

Reeves Pulley Company, 1225 Seventh Street, Columbus, Indiana
Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, O.
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif.

283. TRAPS—Steam

Acker Organization, Inc., W. M., 3167 Fulton Street, Cleveland 9, Ohio
Armstrong Machine Works, 856 Maple St., Three Rivers, Mich.
Cochrane Corp., 17th St. below Allegheny Ave., Philadelphia, Pa.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.

284. TRIPPERS—Belt Conveyor

Chain Belt Co., 4647 W. Greenfield Ave., Milwaukee 1, Wis.

285. TRUCKS—2 Wheel Hand

The E. W. Buschman Co., 4493 Clifton Ave., Cincinnati 32, Ohio

286. TRUCKS—2 Wheel Lift

Clark Equipment Co., Clark Tructractor Div., Battle Creek, Mich.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

287. TRUCKS—4 Wheel Lift

Barrett-Cravens Co., 4613 S. Western Ave., Chicago, Ill.
Clark Equipment Co., Clark Tructractor Div., Battle Creek, Mich.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

288. TUBING—Flexible Plastic

U. S. Stoneware Co., The, 60 E. 42nd St., New York 17, N. Y.

289. ULTRA VIOLET EQUIPMENT

Hanovia Chem. & Mfg. Co., 100 Chestnut St., Newark 5, N. J.
Sanitron, Inc., 24-10 40th Ave., Long Island City 1, N. Y.

290. UNSCRAMBLING TABLES

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.
Island Equipment Corp., 27-01 Bridge Plaza, N., Long Island City 1, N. Y.

290A. VACUUM PANS

Cherry-Burrell Corp., 427 W. Randolph St., Chicago, Ill.
Creamery Package Mfg. Co., 1243 W. Washington Blvd., Chicago, Ill.
F. H. Langsenkamp Co., 229 E. South St., Indianapolis, Ind.
Mojonnier Bros. Co., 4601 W. Ohio St., Chicago 44, Ill.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

291. VALVES—Diaphragm

Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Klipfel Valves, Inc., 1075 Lincoln Ave., Hamilton, Ohio
Minneapolis-Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia Pa.
Seely Instrument Company, 377 Fourth St., Niagara Falls, N. Y.
Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Companies, 95 Ames Street, Rochester 1, New York

292. VALVES—Float

Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Klipfel Valves, Inc., 1075 Lincoln Ave., Hamilton, Ohio
Tri-Clover Machine Co., Kenosha, Wis.

293. VALVES—Foot

Cochrane Corp., 17th St. below Allegheny Ave., Philadelphia 32, Pa.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.

294. VALVES—Gate, Globe and Check

The Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
The Jeffrey Mfg. Co., 906 N. 4th St., Columbus 16, Ohio
Tri-Clover Machine Co., Kenosha, Wis.

295. VALVES—Hydraulic

Seely Instrument Company, 377 Fourth St., Niagara Falls, N. Y.

296. VALVES—Motor Operated

Minneapolis-Honeywell, Industrial Div., Wayne & Windrim Aves., Philadelphia Pa.

297. VALVES—Needle

The Fairbanks Co., 393 Lafayette St., New York 3, N. Y.

298. VALVES—Pressure Regulating

Klipfel Valves, Inc., 1075 Lincoln Ave., Hamilton, Ohio
Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

299. VINE CLEANERS

Frank Hamachek Machine Co., Kewaunee, Wis.

300. VINEGAR EQUIPMENT AND SUPPLIES

Engineer Design Co., 70 Beaver St., New York, N. Y.

301. VINERS—Pea and Bean

Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Hamachek Machine Company, Frank, 97 Ellis St., Kewaunee, Wis.

302. WASHERS—Glass Container Type

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Barry-Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Jacobowitz Co., Charles S., 3080 Main St., Buffalo, N. Y.

303. WASHERS—Process Type, Corn

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.
The United Co., Tuc Road, Westminster, Md.

304. WASHERS—Process Type, Fruit

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Reinhardt Co., H. A., 77 Church St., Newtown, Ohio
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

305. WASHERS—Process Type, Pea

Berlin Chapman Co., Berlin, Wis.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.

306. WASHERS—Process Type, Spinach

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

307. WASHERS—Process Type, Tomato

Allan Iron & Welding Works, Inc., 135 Murray St., Rochester 6, N. Y.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.
Jeffrey Mfg. Company, 918-99 North Fourth Street, Columbus 16, Ohio
Robins & Co., Inc., A. K., 713-729 E. Lombard St., Baltimore 2, Md.

308. WASTE DISPOSAL PLANTS

Allis-Chalmers Manufacturing Co., Milwaukee 1, Wis.
Chain Belt Company, 4647 W. Greenfield, Milwaukee 1, Wis.
Jeffrey Manufacturing Co., 906 North Fourth St., Columbus 16, Ohio

309. WASTE RECOVERY SYSTEMS

Chain Belt Co., 4647 W. Greenfield, Milwaukee 1, Wis.

310. WASTE SCREENS

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Chisholm-Ryder Co., Inc., College at Highland Aves., Niagara Falls, N. Y.
Productive Equipment Corp., 2926 W. Lake St., Chicago 12, Ill.

311. WATER PURIFYING EQUIPMENT

Cochrane Corp., 17th St. below Allegheny Ave., Philadelphia, Pa.
Hanovia Chem. & Mfg. Co., 100 Chestnut St., Newark 5, N. J.
Wallace & Tiernan Co., Inc., P.O. Box 178, Newark 1, N. J.

SECTION B

packaging machinery and supplies

1. ADHESIVES—Glues and Pastes

The Arabol Manufacturing Co., 110 East 42nd St., New York 17, N. Y.
Cornbelt Adhesives, Council Bluffs, Ia.
Dewey & Almy Chemical Co., Whittemore Ave., Cambridge 40, Mass.
Dunn Co., Thomas W., 340 Pearl St., New York, N. Y.
The F. G. Findley Co., 3033 W. Pemberton Ave., Milwaukee 45, Wis.
H. B. Fuller Co., 181 W. Kellogg Blvd., St. Paul 2, Minn.
National Adhesives, 270 Madison Ave., New York 16, N. Y.
National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.
Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
Polymer Industries, 284 Sheffield Ave., Brooklyn, N. Y.
Swift & Co., Union Stock Yards, Chicago 9, Ill.
Union Paste Co., 1605 Hyde Park Ave., Hyde Park 36, Mass.

2. BAGS—Cellophane

Continental Can Co., Inc., 100 E. 42nd St., New York 17, N. Y.
Equitable Paper Bag Co., Inc., 45-50 Van Dam St., Long Island City 1, N. Y.

3. BAGS—Glassine and Waxed

Continental Can Co., Inc., 100 E. 42nd St., New York 17, N. Y.
Equitable Paper Bag Co., Inc., 45-50 Van Dam St., Long Island City 1, N. Y.
Union Bag & Paper Corp., 233 Broadway, New York 7, N. Y.

4. BAGS—Transparent

Equitable Paper Bag Co., Inc., 45-50 Van Dam St., Long Island City 1, N. Y.
Union Bag & Paper Corp., 233 Broadway, New York 7, N. Y.

5. BAGS—Waterproof

Equitable Paper Bag Co., Inc., 45-50 Van Dam St., Long Island City 1, N. Y.
Mehl Manufacturing Co., 2057 Reading Road, Cincinnati 2, Ohio
Union Bag & Paper Corp., 233 Broadway, New York 7, N. Y.

6. BOXES—Fibre and Corrugated

Consolidated Paper Co., E. Elm Ave., Monroe, Mich.
Container Corp. of America, 38 S. Dearborn St., Chicago 3, Ill.
Gair Co., Robert, 155 E. 44th St., New York 17, N. Y.
Gaylord Container Corp., 111 N. 4th St., St. Louis, Mo.
Grand-City Container Corp., 2001 Tonnelle Ave., North Bergen, N. J.
Union Bag & Paper Corp., 233 Broadway, New York 7, N. Y.
United Container Co., 56th & Lancaster Ave., Philadelphia 31, Pa.

7. BRUSHES—Marking

National Rubber Stamp Works, 454 Baltic St., Brooklyn 17, N. Y.

8. CAN CLOSING AND SEALING MACHINES

American Can Co., 230 Park Ave., New York 17, N. Y.
Angelus Sanitary Can Machine Co., 4900 Pacific Blvd., Los Angeles 58, Calif.
Baldwin-Lima-Hamilton Corp., Hamilton, Ohio
Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Callahan Can Machine Co., Inc., 80 Richards St., Brooklyn 31, N. Y.
Continental Can Co., Inc., 100 E. 42nd St., New York 17, N. Y.
Crown Can Co., Erie Ave. & "H" St., Philadelphia 34, Pa.
Hoekin Can Co., Sixth, Culvert & New Sts., Cincinnati 2, Ohio.

9. CAN LABELING MACHINES

Burt Machine Co., 401 East Oliver St., Baltimore 2, Md.
Standard-Knapp Corp., Portland, Conn.

10. CAN LID EMBOSSING MACHINES

Matthews & Co., Jas. H., 3942 Forbes St., Pittsburgh 13, Pa.

11. CAN MAKING MACHINERY

Baldwin-Lima-Hamilton Corp., Hamilton, Ohio
E. W. Bliss Co., 50 Church St., New York 7, N. Y.
Callahan Can Machine Co., Inc., 80 Richards St., Brooklyn 32, N. Y.
Crown Can Co., Erie Ave. & H St., Philadelphia 34, Pa.
Ferguson Co., J. L., Route 52 at Republic Ave., Joliet, Ill.
Max Ams Machine Co., Scofield Ave., Bridgeport 5, Conn.

12. CAN UNSCRAMBLERS

Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.

13. CANS–Fibre

American Can Co., 100 Park Ave. Bldg., New York 17, N. Y.

14. CANS–Metal

American Can Co., 100 Park Ave. Bldg., New York 17, N. Y.
Continental Can Co., Inc., 100 E. 42nd St., New York, 17, N. Y.
Crown Can Co., Erie Ave. & "H" St., Philadelphia 34, Pa.
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore, 24, Md.
Empire Can Corp., 228 Ashford St., Brooklyn, N. Y.
Heekin Can Co., Sixth, Culvert & New Sts., Cincinnati 2, Ohio
National Can Corp., 110 E. 42nd St., New York, N. Y.

15. CAPPING MACHINES–Metal

Aluminum Seal Co., Richmond, Ind.
Baldwin-Lima-Hamilton Corp., Hamilton, Ohio
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore 24, Md.
Swanson, W. H., & Co., 1214 Washington St., Wilmette, Ill.
White Cap Co., 1819 N. Major Ave., Chicago, Ill.

16. CARTON FILLING MACHINES

Gump Co., B. F., 1312 S. Cicero Ave., Chicago 50, Ill.

17. CARTON FORMING, FILLING AND CLOSING MACHINES

Ferguson Co., J. L., Route 52 at Republic Ave., Joliet, Ill.
Package Machinery Co., Springfield, Mass.

18. CARTON LOADING MACHINES

Burt Machine Co., 401 E. Oliver St., Baltimore 2, Md.

19. CARTONS–Laminated

American Coating Mills, Div. of Owens-Illinois Glass Co., Elkhart, Indiana
Consolidated Paper Co., E. Elm Ave., Monroe, Mich.
Container Corp. of America, 38 S. Dearborn St., Chicago 3, Ill.
Grand-City Container Corp., 2001 Tonnelle Ave., North Bergen, N. J.

20. CARTONS–Shipping

Consolidated Paper Co., E. Elm Ave., Monroe, Mich.
Container Corp. of America, 38 S. Dearborn St., Chicago 3, Ill.
Gair Co., Inc., Robert, 155 E. 44th St., New York 17, N. Y.
Gaylord Container Corp., 111 N. 4th St., St. Louis, Mo.
Grand-City Container Corp., 2001 Tonnelle Ave., North Bergen, N. J.
Weber Co., David, 3500 Richmond St., Philadelphia 34

21. CARTONS–Waxed and Paraffined

Consolidated Paper Co., E. Elm Ave., Monroe, Mich.
Container Corp. of America, 38 S. Dearborn St., Chicago 3, Ill.
Robert Gair Co., 155 E. 44th St., New York 17, N. Y.

22. CASE PACKERS

Barnes Co., W. F. & John, 301 Water St., Rockford, Ill.
Burt Machine Co., 401 E. Oliver St., Baltimore 2, Md.
Ferguson Co., J. L., Route 52 at Republic Ave., Joliet, Ill.
Standard-Knapp Corp., Portland, Conn.

23. CASE PRINTING MACHINES

Diagraph - Bradley Industries, Inc., Herrin, Ill.
Ferguson Co., J. L., Route 52 at Republic Ave., Joliet, Ill.
Industrial Marking Equipment Co., 454 Baltic St., Brooklyn 17, N. Y.
Matthews & Co., Jas. H., 3942 Forbes St., Pittsburgh 13, Pa.
Standard-Knapp Corp., Portland, Conn.

24. CASE SEALING MACHINES–Glue

A-B-C Packaging Machine Corp., 102 S. Front St., Quincy, Ill.
Ferguson Co., J. L., Route 52 at Republic Ave., Joliet, Ill.
Standard-Knapp Corp., Portland, Conn.

25. CASE STITCHING MACHINES

Bostitch, Inc., 48 Division St., East Greenwich, R. I.
Diagraph - Bradley Industries, Inc., Herrin, Ill.
Inland Wire Products Co., 3947 S. Lowe Avenue, Chicago 9, Illinois.

26. CASE UNSCRAMBLERS

Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.

27. CELLOPHANE

Du Pont de Nemours & Co., E. I., Wilmington 98, Del.

28. CLOSING MACHINES–Vacuum, Glass

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
Aluminum Seal Co., Richmond, Ind.
Angelus Sanitary Can Machine Co., 4900 Pacific Blvd., Los Angeles 58, Calif.
Callahan Can Machine Co., Inc., 80 Richards St., Brooklyn 31, N. Y.
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore 24, Md.

29. CLOSURE LINERS

Armstrong Cork Co., Glass & Closure Div., Lancaster, Pa.
Ball Bros. Co., 3428 W. 48th Place, Chicago 32, Ill.
Standard Insulation Co., 74 Paterson Ave., East Rutherford, N. J.

30. CLOSURE SEALING COMPOUNDS

Dewey & Almy Chemical Co., 62 Whittemore Ave., Cambridge 40, Mass.
U. S. Rubber Co., Naugatuck Chemical Division, 1230 Sixth Ave., New York 20, N. Y.

31. CLOSURES–Crown

Armstrong Cork Co., Glass & Closure Div., Lancaster, Pa.
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore, Md.

32. CLOSURES–Metal

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
Aluminum Seal Co., Richmond, Ind.
American Star Cork Co., Inc., 175 N. 9th St., Brooklyn 11, N. Y.
Armstrong Cork Co., Glass & Closure Div., Lancaster, Pa.
Ball Brothers Co., E. 9th St., Muncie, Ind.
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore 24, Md.
General Cap and Closure Co., 1727 S. Stewart Ave., Chicago 16, Ill.
Hazel-Atlas Glass Co., 15th & Jacob Sts., Wheeling, W. Va.
Owens-Illinois Glass Co., Toledo 1, Ohio

33. CLOSURES–Plastic

Armstrong Cork Co., Glass & Closure Div., Lancaster, Pa.
Owens-Illinois Glass Co., Toledo 1, Ohio

34. CLOSURES–Vacuum Sealing

Aluminum Seal Co., Richmond, Indiana
Ball Brothers Co., E. Ninth St., Muncie, Ind.
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore 24, Md.
General Cap and Closure Co., 1727 S. Stewart Ave., Chicago 16, Ill.
Owens-Illinois Glass Co., Toledo 1, Ohio
White Cap Co., 1819 N. Major Ave., Chicago, Ill.

35. CODE DATING EQUIPMENT

Crown Can Co., Erie Ave. & H St., Philadelphia 34, Pa.
Economic Machinery Co., Div. Geo. J. Meyer Mfg. Co., Worcester 3, Mass.
Industrial Marking Equipment Co., 454 Baltic St., Brooklyn 17, N. Y.
Matthews & Co., Jas. H., 3942 Forbes St., Pittsburgh 13, Pa.

36. CONVEYORS–Flat Top Chain

Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.

37. CONVEYORS–Motor Driven

Horix Mfg. Co., Corliss Station Pittsburgh 4, Pa.

38. DRUMS–Fibre

Continental Can Co., Inc., 100 E. 42nd St., New York 17, N. Y.
Gaylord Container Corp., 111 N. Fourth St., St. Louis 2, Mo.

39. DRUMS–Metal

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
American Can Co., 100 Park Ave. Bldg., New York 17, N. Y.
Crown Can Co., Erie Ave. & H St., Philadelphia 34, Pa.
Heekin Can Co., 6th, Culvert & New Sts., Cincinnati 2, Ohio

40. FIBRE–Metal Packages

American Can Co., 100 Park Ave. Bldg., New York 17, N. Y.

41. FILLING MACHINES–Can

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Central Machine Works Inc., 7th & Wood Sts., Philadelphia 6, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery & Chemical Corp. Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Horix Mfg. Co., Corliss Sta., Pittsburgh 4, Pa.

42. FILLING MACHINES–Dry

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Central Machine Works Inc., 7th & Wood Sts., Philadelphia 6, Pa.

Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
J. L. Ferguson Co., Route 52 at Republic Ave., Joliet, Ill.
Gump Co., G. F., 1342 S. Cicero Ave., Chicago 50, Ill.

43. FILLING MACHINES–Flexible

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Central Machine Works Inc., 7th & Wood Sts., Philadelphia 6, Pa.
Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.

44. FILLING MACHINES–Glass

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Central Machine Works Inc., 7th & Wood Sts., Philadelphia 6, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore 24, Md.
Food Machinery & Chemical Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

45. FILLING MACHINES–Hand Pack

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Central Machine Works Inc., 7th & Wood Sts., Philadelphia 6, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.

46. FILLING MACHINES–Liquid Type

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Central Machine Works Inc., 7th & Wood Sts., Philadelphia 6, Pa.
Chisholm-Ryder Co., College at Highland Ave., Niagara Falls, N. Y.
Crown Cork & Seal Co., Eastern Ave & Kresson St., Baltimore 24, Md.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Horix Mfg. Co., Corliss Station, Pittsburgh 4, Pa.
MRM Company, 191 Berry St., Brooklyn 11, N. Y.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.

47. FILLING MACHINES–Semi-Solid Type

Barnes Co., W. F. & John, 301 S. Water St., Rockford, Ill.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Central Machine Works Inc., 7th & Wood Sts., Philadelphia 6, Pa.
Chisholm-Ryder Co., Inc., College at Highland Ave., Niagara Falls, N. Y.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Horix Mfg. Co., Corliss St., Pittsburgh 4, Pa.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.

48. FOIL–Aluminum

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.

49. FOIL–Tin, Lead and Aluminum

Gair Co., Robert, 155 E. 44th St., New York 17, N. Y.

50. GLASS CONTAINERS

Anchor Hocking Glass Corp., 80 Glass Ave., Lancaster, Ohio
Armstrong Cork Co., Glass & Closure Div., Lancaster, Pa.
Ball Brothers Co., Muncie, Ind.
Brockway Glass Co., Inc., 1047 Seventh Ave., Brockway, Pa.
Glass Containers, Inc., 1789 Montgomery St., San Francisco, Calif.
Hazel-Atlas Glass Co., 15th & Jacob Sts., Wheeling, W. Va.
Knox Glass Associates, Inc., Penn Ave., Knox, Pa.
Owens-Illinois Glass Co., Toledo 1, Ohio
Thatcher Glass Mfg. Co., P. O. Box 265, Elmira, N. Y.
Tygart Valley Glass Co., Washington, Pa.

51. GUMMED LABELS

Tompkins' Label Service, Frankford Ave., at Allegheny Ave., Philadelphia 34, Pa.

52. GUMMED TAPE MACHINES

Diagraph-Bradley Idustries, Inc., Herrin Ill.

53. HEAT SEALING MACHINES

Pack-Rite Machines, 407 E. Michigan St., Milwaukee, Wis.

54. LABEL GUMMING MACHINES

Diagraph-Bradley Industries, Inc., Herrin, Ill.
Economic Machinery Co., Div. Geo. J. Meyer Mfg. Co., Worcester 3, Mass.

55. LABELING MACHINES

A-B-C Packaging Machine Co., 221 South Fourth St., Quincy, Ill.
Able Engineering Inc., 607 22nd Ave. NE, Mineapolis 18, Minn.
Barry-Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.
Burt Machine Co., 401 E. Oliver St., Baltimore 2, Md.
Economic Machinery Co., Div. Geo. J. Meyer Mfg. Co., Worcester 3, Mass.
New Jersey Machine Corp., 16th St. & Willow Ave., Hoboken, N. J.
Potdevin Machine Co., 207A North St., Teterboro, N. J.
Standard-Knapp Corp., Portland, Conn.

56. LABELS–Heat Sealed

Tompkins' Label Service, Frankford Ave., at Allegheny Ave., Philadelphia 34, Pa.

57. LABELS–Lithographed

Calvert Lithographing Co., 2100 Grand River Ave. W., Detroit 1, Mich.
H. S. Crocker Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Gamse Lithographing Co., 419-421 E. Lombard St., Baltimore 2, Md.
Independent Lithograph Co., 298 Alabama St., San Francisco, Calif.
Muirson Label Co., Peoria, Ill.
Rossotti Lithographing Corp., 8511 Tonnelle Ave., North Bergen, N. J.
Stecher-Traung Lithograph Corp., Rochester 7, N. Y.
Tompkins' Label Service, Frankford Ave. at Allegheny Ave., Philadelphia 34, Pa.
United States Printing & Lithograph Co., 354 Beech St., Cincinnati 12, O.

58. LABELS–Shipping

Ever Ready Label Corp., 357 Cortlandt St., Belleville 9, N. J.
Tompkins' Label Service, Frankford Ave. at Allegheny Ave., Philadelphia 34, Pa.
Weber Addressing Machine Co., 200 W. Central Rd., Mt. Prospect, Ill.

59. LINERS–Box, Case, Bag

Equitable Paper Bag Co., Inc., 45-50 Van Dam St., Long Island City 1, N. Y.

60. MARKING MACHINES

Diagraph-Bradley Industries, Inc., P.O. Box 247, Herrin, Ill.
Industrial Marking Equipment Co., 454 Baltic St., Brooklyn 17, N. Y.
Matthews & Co., Jas. H., 3942 Forbes St., Pittsburgh 13, Pa.
National Rubber Stamp Works, 7 East 48th St., New York 17, N.Y.
Weber Addressing Machine Co., 200 W. Central Rd., Mt. Prospect, Ill.

61. MARKING STENCIL BOARD

Diagraph-Bradley Industries, Inc., Herrin, Ill.
National Rubber Stamp Works, 7 East 48th St., New York 17, N.Y.

62. PACKAGES–Frozen Food (Bulk Types)

Marathon Corp., Menasha, Wis.

63. PACKAGES–Frozen Food (Consumer Types)

American Can Co., 230 Park Ave., New York 17, N. Y.
H. S. Crocker Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Grand-City Container Corp., 2001 Tonnelle Ave., North Bergen, N. J.
Marathon Corp., Menasha, Wis.
Rossotti Lithographing Co., Inc., 8511 Tonnelle Ave., North Bergen, N. J.

64. PACKERS–Vibrating

Gump Company, G. F., 1342 S. Cicero Ave., Chicago 50, Ill.

65. PAPER–Corrugatd

Consolidated Paper Co., E. Elm Ave., Monroe, Mich.
Gaylord Container Corp., St. Louis, Mo.
Grand-City Container Corp., 2001 Tonnelle Ave., North Bergen, N. J.

66. PAPER–Glassine

Thilmany Pulp & Paper Co., Kaukauna, Wis.

67. PAPER–Gummed

Mid-States Gummed Paper Co., 2515 S. Damen Ave., Chicago 8, Ill.

68. PAPER–Moisture Resistant

Gaylord Container Corp., St. Louis, Mo.
Marathon Corp., Menasha, Wis.
Standard Insulation Co., 72 Paterson Ave., East Rutherford, N. J.
Thilmany Pulp & Paper Co., Kaukauna, Wis.

69. PAPER–Vegetable Parchment

West Carrollton Parchment Co., S.W. Cor. Central Av., & Elm St., West Carrollton, Ohio

70. PAPER–Waxed

Marathon Corp., Menasha, Wis.
Thilmany Pulp & Paper Co., Kaukauna, Wis.
West Carrollton Parchment Co., S.W. Cor. Central Av., & Elm St., West Carrollton, Ohio

71. PAPER BOXES–Set Up

United States Printing & Lithographing Co., 333 Beech St., Cincinnati 12, Ohio

72. PAPER CONTAINERS–Liquid

American Can Co., 230 Park Ave., New York 17, N. Y.
Continental Can Co., Inc., 100 E. 42nd St., New York 17, N. Y.

73. PAPER CUPS

Continental Can Co., Inc., 100 E. 42nd St., New York 17, N. Y.

74. SCALES–Automatic Weighing

Gump Co., B. F., 1342 S. Cicero Ave., Chicago 50, Ill.

75. SCALES–Sacking

Gump Co., B. F., 1342 S. Cicero Ave., Chicago 50, Ill.

76. SEAMERS–Can

Angelus Sanitary Can Machine Co., 4900 Pacific Blvd., Los Angeles 58, Calif.
E. W. Bliss Co., 50 Church St., New York 7, N. Y.
Callahan Can Machine Co., Inc., 86 Richards St., Brooklyn 31, N. Y.
Crown Can Co., Erie Ave. & H St., Philadelphia 34, Pa.

77. STAPLING MACHINES

Clark Tructractor Div. of Clark Equipment Co., Battle Creek 66, Mich.
Inland Wire Products Co., 3947 S. Lowe Ave., Chicago 9, Ill.
Acme Steel Co., Acme Steel Products Div., 2840 S. Archer, Chicago, Ill.

78. STITCHING WIRE

Diagraph-Bradley Industries, Inc., Herrin, Ill.
Inland Wire Products Co., 3947 S. Lowe Avenue, Chicago 9, Illinois

79. STRAPPING MATERIALS–Box and Carton

Inland Wire Products Co., 3947 S. Lowe Ave., Chicago 9, Ill.

80. TAPE–Gummed

Rexford Paper Co., 1715 W. Canal St., Milwaukee 3, Wis.

81. TAPE DISPENSERS

Diagraph-Bradley Industries, Inc., P.O. Box 247, Herrin, Ill.

82. TAPE SEALING MACHINES

Diagraph-Bradley Industries, Inc., P.O. Box 247, Herrin, Ill.

83. TIN PLATE

Standard Insulation Co., 72 Paterson Ave., East Rutherford, N. J.
The Youngstown Sheet & Tube Co., Stambaugh Bldg., Youngstown 1, O.

84. TRANSPARENT FILMS

Du Pont de Nemours & Co., E. I., Wilmington 98, Del.
Standard Insulation Co., 72 Paterson Ave., East Rutherford, N. J.

85. TUBES–Collapsible Metal

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
Peerless Tube Company, 76 Locust Avenue, Bloomfield, New Jersey
Standard Collapsible Tube Co., Box 271, Rochester, Pa.
White Metal Mfg. Co., 1012 Grand St., Hoboken, N. J.

86. WIRE STRAPPING MACHINES

Inland Wire Products Co., 3947 S. Lowe Ave., Chicago 9, Ill.

87. WRAPPING MACHINES–Frozen Food

Package Machinery Co., Springfield, Mass.

SECTION C

canner's acreage machinery & supplies

1. BASKETS–Berry

Farmers, Inc., 411 Duke St., Norfolk 10, Va.
Price Box & Basket Co., Box 466, Neosho, Mo.

2. BASKETS–Bushel

Farmers, Inc., 411 Duke St., Norfolk 10, Va.
Price Box & Basket Co., Box 466, Neosho, Mo.

3. BASKETS–Fruit and Vegetable

Farmers, Inc., 411 Duke St., Norfolk 10, Va.
Price Box & Basket Co., Box 466, Neosho, Mo.

4. BASKETS–Grape

Farmers, Inc., 411 Duke St., Norfolk 10, Va.
Price Box & Basket Co., Box 466, Neosho, Mo.

5. CABBAGE PLANTS

Omega Plant Farms, Omega, Ga.

6. COMBINES–Pea, Lima Bean

Scott Viner Co., 1224 Kinnear Rd., Columbus, Ohio

7. CRATES–Wooden

Price Box & Basket Co., Box 466, Neosho, Mo.

8. CULTIVATORS

Allis-Chalmers Mfg. Co., Tractor Div., Milwaukee 1, Wis.

9. DIGGERS

Champion Corporation, 4714 Sheffield Ave., Hammond, Ind.

10. DRILLS AND PLANTERS

Allis-Chalmers Mfg. Co., Milwaukee, Wis.

11. DUSTERS–Hand

Food Machinery & Chemical Corp., Niagara Chemical Div., Middleport, New York

12. DUSTING EQUIPMENT–Power

The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.

13. DUSTING MATERIALS–Dust Fillers

The Dicalite Co., 18 E. 48th St., New York 17, N. Y.
Food Machinery & Chemical Corp., Niagara Chemical Div., Middleport, New York

14. DUSTING MATERIALS–Lime

Gibsonburg Lime Products Co., The, Gibsonburg, Ohio

15. FERTILIZERS

American Cyanamid Co., Agricultural Chemicals Div., 30 Rockefeller Plaza, New York 20, N. Y.
Swift & Co., Union Stock Yards, Chicago 9, Ill.

16. FUNGICIDES–Copper Compounds

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Bound Brook, N.J.
Crop-Saver Chemical Co., Inc., 1600 E. Davis St., Arlington Heights, Ill.
Food Machinery & Chemical Corp., Niagara Chemical Div., Middleport, New York

17. FUNGICIDES–Mercury Compounds

Chipman Chemical Co., Bound Brook, N.J.

Food Machinery & Chemical Corp., Niagara Chemical Div., Middleport, New York

18. FUNGICIDES—Synthetic Organic Compounds

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Du Pont de Nemours & Co., E. I., Wilmington 98,, Del.

19. HARVESTERS

Allis-Chalmers Mfg. Co., Tractor Div., Milwaukee 1, Wis.
Hume Co., H. D., 812 N. Main Street, Mendota, Ill.

20. HARVESTERS—Beet and Carrot

Scott Viner Co., 1224 Kinnear Rd., Columbus, Ohio

21. HARVESTERS—Pea

Hume Co., H. D., 812 N. Main Street, Mendota, Ill.

22. HARVESTERS—Special

Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 5, Calif., or Hoopeston, Ill.
Hume Co., H. D., 812 N. Main Street, Mendota, Ill.
O. W. Kromer Co., 1120 N. Emerson Ave., Minneapolis 11, Minn.
Magnuson Engineers, 509 Emory St. San Jose 10, Calif.

23. HARVESTERS—Spinach

Hume, Co., H. D., 812 N. Main St., Mendota, Ill.
Porterway Harvester Co., Waterloo, N. Y.

24. INSECT ELECTROCUTERS

Detjen Corp., Elec. Fly Screen Div., 303 W. 42nd St., New York 18, N. Y.
Lyon Rural Electric Co., 2075 Moore St., San Diego 12, Calif.

25. INSECTICIDES—Arsenates

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Bound Brook, N.J.
Food Machinery & Chemical Corp., Niagara Chemical Div., Middleport, New York

26. INSECTICIDES—Benzene Hexachloride

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Bound Brook, N. J.

27. INSECTICIDES—Chlordane

California Spray Chemical Corp., Lucas and Ortho Way, Richmond, Calif.
Chipman Chemical Co., Bound Brook, N.J.
Crop-Saver Chemical Co., Inc., 1600 E. Davis St., Arlington Heights, Ill.

28. INSECTICIDES—Cryolite

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
Chipman Chemical Co., Bound Brook, N.J.

29. INSECTICIDES—DDT

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Bound Brook, N.J.
Crop-Saver Chemical Co., Inc., 1600 E. Davis St., Arlington Heights, Ill.
Northrup, King & Co., 1500 Jackson St. N. W., Minneapolis 13, Minn.
Pittsburgh Plate Glass Co., Corona Chemical Div., Milwaukee 1, Wis.

30. INSECTICIDES—Lindane

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Bound Brook, N.J.

31. INSECTICIDES—Methoxychlor

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif. .
DuPont de Nemours & Co., E. I., Wilmington 98, Del.

32. INSECTICIDES—Nicotine

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
McConnon & Co., Winona, Minn.

33. INSECTICIDES—Pyrethrum

American Cyanamid Co., Agricultural Chemicals Div., 30 Rockefeller Plaza, New York 20, N. Y.
California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Bound Brook, N.J.
Crop-Saver Chemical Co., Inc., 1600 E. Davis St., Arlington Heights, Ill.
The Diversey Corp., 1820 W. Roscoe St., Chicago 13, Ill.
McConnon & Co., Winona, Minn.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y.

34. INSECTICIDES—Rotenone

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Bound Brook, N.J.
Crop-Saver Chemical Co., Inc., 1600 E. Davis St., Arlington Heights, Ill.
McConnon & Co., Winona, Minn.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y.

35. INSECTICIDES—Ryania

McConnon & Co., Winona, Minn.
S. B. Penick & Co., 50 Church St., New York City

36. INSECTICIDES—Sabadilla

McConnon & Co., Winona, Minn.

37. INSECTICIDES—Synthetic Organic Compounds

Chipman Chemical Co., Bound Brook, N.J.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y.

38. IRRIGATION EQUIPMENT

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
Champion Corporation, 4714 Sheffield Ave., Hammond, Indiana
Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill.

39. IRRIGATION SYSTEMS—Portable

Champion Corporation, 4714 Sheffield Ave., Hammond, Ind.

40. LIME—Acid Waste Treatment

Gibsonburg Lime Products Co., The, Gibsonburg, Ohio

41. LIME—Spray Hydrate

Gibsonburg Lime Products Co., The, Gibsonburg, Ohio

42. LOADERS

Hume Co., H. D., 812 N. Main Street, Mendota, Ill.
The Oliver Corp., A. B. Farquhar Div., 142 W. Duke St., York, Pa.

43. MOWER ATTACHMENTS—Special

Allis-Chalmers Mfg. Co., Tractor Div., Milwaukee 1, Wis.
Bolens Products Div., Food Machinery & Chemical Corp., 215 S. Park St., Port Washington, Wis.

44. OILS—Miscible and Emulsions

Archer-Daniels-Midland Co., Minneapolis 2, Minn.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

45. ONION SET GROWERS

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff, F. H. & Sons, Inc., Milford, Conn.

46. PLANTERS

The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.

47. PULVERIZERS—Limestone

The Jeffrey Mfg. Co., 906 N. 4th St., Columbus 16, Ohio

48. ROW CROP MACHINES

The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.

49. SEED—Disinfectants

Chipman Chemical Co., Bound Brook, N.J.
Michael Leonard Co., Sioux City 6, Iowa

50. SEEDS—Coated (Pelleted)

Associated Seed Growers, Inc., New Haven 2, Conn.
Filtrol Corp., 315 W. Fifth St., Los Angeles, Calif.

51. SOIL FUMIGANTS

California Spray Chemical Corp., Lucas and Ortho Way, Richmond 4, Calif.
Innis, Speiden & Co., 117 Liberty St., New York City

52. SPRAY NOZZLES

Bean Manufacturing Co., John, Div. of Food Machinery & Chemical Corp., Lansing 4, Mich.
Kromer Co., O. W., 1120 Emerson Ave., N., Minneapolis 11, Minn.
Spraying Systems Co., 3201 Randolph St., Bellwood, Ill.

53. SPRAYERS—Power and Accessories

Kromer Co., O. W., 1120 Emerson Ave., N., Minneapolis 11, Minn.
The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.

PHILADELPHIA, CHICAGO, ORLANDO, NEW YORK, BALTIMORE, ST. LOUIS, BOSTON

54. SPREADERS, SOAPS AND STICKERS

American Cyanamid Co., Agricultural Chemicals Div., 30 Rockefeller Plaza, New York 20, N.Y.
Archer-Daniels-Midland Co., Minneapolis 2, Minn.
Pittsburgh Plate Glass Co., Corona Chemical Div., Milwaukee 1, Wis.

55. TANKS (WOOD)—Water Storage

Amos H. Hall & Sons, 5500 N. Water St., Philadelphia 20, Pa.

56. TOMATO PLANTS

Crescent Farms, Moultrie, Ga.
McAdams, Frank, Seed & Plant Farms, 121 E. Henderson St., Nashville, Ark.
Omega Plant Co., Omega, Ga.
Piedmont Plant Co., Albany, Ga.
Thompson-Evans Plant Co., Hope, Ark.

57. TRACTORS—Walking or Garden

Kromer Co., O. W., 1120 Emerson Ave., N., Minneapolis 11, Minn.

58. TRANSPLANTERS

The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.

59. WEED CHEMICAL KILLERS

American Cyanamid Co., Agricultural Chemicals Div., 30 Rockefeller Plaza, New York 20, N.Y.
California Spray Chemical Corp., Lucas & Ortho Way, Richmond 4, Calif.
Chipman Chemical Co., Inc., Bound Brook, N. J. (Atlacide, Sodium Chlorate 2, 4-D, Sodium Arsenite)
Pittsburgh Plate Glass Co., Columbia Chemical Div., 5th at Rockefeller, Pittsburgh 13, Pa.

60. WEED SPRAYERS

The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.

61. SEEDS—Canning and Freezing Varieties

ARTICHOKES

Woodruff & Sons, Inc., F. H., Milford, Conn.

ASPARAGUS

Associated Seed Growers, Inc., New Haven 2, Conn.
Hart Seed Co., The Chas. C., Wethers-
Woodruff & Sons, Inc., F. H., Milford, Conn.

BEANS—Kidney

Associated Seed Growers, Inc., New Haven 2, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Washburn Wilson Seed Co., Moscow, Idaho.
Woodruff & Sons, Inc., F. H., Milford, Conn.

BEANS—Lima

Associated Seed Growers, Inc., New Haven 2, Conn.
Cornell Seed Co., 101 Chouteau Ave., St. Louis 2, Mo.
Gallatin Valley Seed Co., P.O. Box 340, Bozeman, Mont.
Hart Seed Co., The Chas. C., Wethersfield, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Rogers Bros. Seed Co., Idaho Falls, Ida.
Washburn Wilson Seed Co., Moscow, Idaho.
Woodruff & Sons, Inc., F. H., Milford, Conn.

BEANS—Snap

Associated Seed Growers, Inc., New Haven 2, Conn.
Charter Seed Co., P.O. Box 191, Twin Falls, Idaho
Cornell Seed Co., 101 Chouteau Ave., St. Louis 2, Mo.
Gallatin Valley Seed Co., P.O. Box 340, Bozeman, Mont.
Michael-Leonard Co., Sioux City 6, Ia.
Northrup, King & Co., 1500 Jackson St., N. E., Minneapolis 13, Minn.
Rogers Bros. Seed Co., Idaho Falls, Ida.
Woodruff & Sons, Inc., F. H., Milford, Conn.

BEANS—Soy

Woodruff & Sons, Inc., F. H., Milford, Conn

BEANS—Wax

Associated Seed Growers, Inc., New Haven 2, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Rogers Bros. Seed Co., Idaho Falls, Ida.
Woodruff & Sons, Inc., F. H., Milford, Conn.

BEETS

Associated Seed Growers, Inc., New Haven 2, Conn.
Hart Seed Co., Chas. C., Wethersfield, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Northrup King & Co., 1500 Jackson St. N. E., Minneapolis 13, Minn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

BROCCOLI

Associated Seed Growers, Inc., New Haven 2, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

BRUSSEL SPROUTS

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

CABBAGE

Associated Seed Growers, Inc., New Haven 2, Conn.
Hart Seed Co., Chas. C., Wethersfield, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

CARROTS

Associated Seed Growers, Inc., New Haven 2, Conn.
Cornell Seed Co., 101 Chouteau Ave., St. Louis 2, Mo.
Michael-Leonard Co., Sioux City 6, Ia.
Northrup, King & Co., 1500 Jackson St. N. E., Minneapolis 13, Minn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

CAULIFLOWER

Associated Seed Growers, Inc., New Haven 2, Conn.
Ferry-Morse Seed Co., P. O. Box 778, Detroit, Mich.
Woodruff & Sons, Inc., F. H., Milford, Conn.

CELERY

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

CUCUMBERS

Associated Seed Growers, Inc., New Haven 2, Conn.
Burrell Seed Growers Co., D. V., Rocky Ford, Colo.
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

KALE

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff & Sons, Inc., F. H. Milford, Conn.

MUSTARD (For Greens)

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

OKRA

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

ONIONS

Associated Seed Growers, Inc., New Haven 2, Conn.
Charter Seed Co., P.O. Box 191, Twin Falls, Idaho
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

PEAS

Associated Seed Growers, Inc., New Haven 2, Conn.
Charter Seed Co., P. O. Box 191, Twin Falls, Idaho
Cornell Seed Co., 101 Chouteau Ave., St. Louis 2, Mo.
Crites-Moscow Growers, Inc., Moscow, Idaho.
Gallatin Valley Seed Co., P.O. Box 340, Bozeman, Mont.
Michael-Leonard Co., Sioux City 6, Ia.
Morrison Bros. Seed Co., P.O. Box 66, Dishman, Wash.
Northrup, King & Co., 1500 Jackson St., N. E., Minneapolis 13, Minn.
Rogers Bros. Seed Co., Idaho Falls, Ida.
Washburn-Wilson Seed Co., Moscow, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

PEPPER

Associated Seed Growers, Inc., New Haven 2, Conn.
Rogers Bros., Seed Co., Idaho Falls, Ida.
Woodruff & Sons, Inc., F. H., Milford, Conn.

PIMENTO

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

PUMPKIN

Associated Seed Growers, Inc., New Haven 2, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

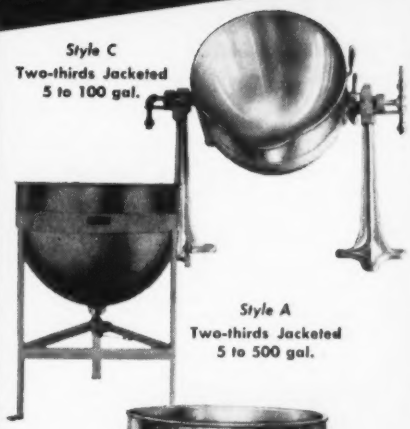
SPINACH

Associated Seed Growers, Inc., New Haven 2, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

SQUASH

Associated Seed Growers, Inc., New Haven 2, Conn.
Ferry-Morse Seed Co., P. O. Box 778, Detroit, Mich.
Hart Seed Co., Chas. C., Wethersfield, Conn.
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

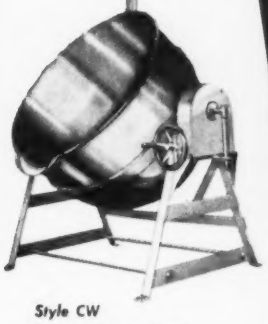
COOKING KETTLES



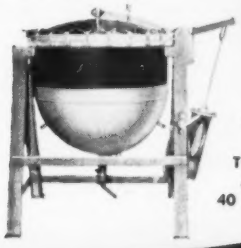
Style C
Two-thirds Jacketed
5 to 100 gal.

Style A
Two-thirds Jacketed
5 to 500 gal.

Style B
Full Jacketed
10 to 300 gal.



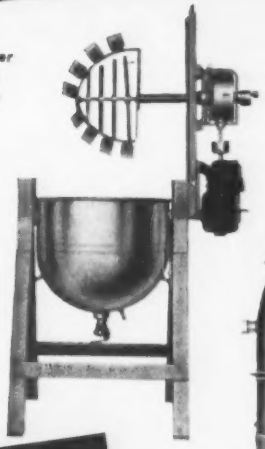
Style CW
Two-thirds Jacketed
80 to 300 gal.



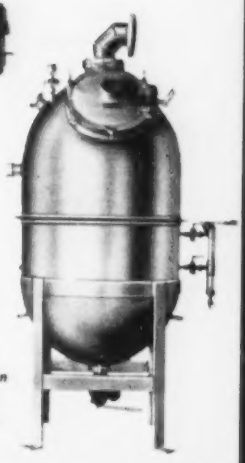
Pressure Kettle
Two-thirds Jacketed
40 to 200 gal.

MIXING AND BLENDING UNITS

CW3T
Center-line Scraper
Agitator Kettle
80 to 300 gal.



A3T
Center-line Scraper
Agitator Kettle
25 to 300 gal.



Vacuum Pan
50 to
500 gal.

Quick Cooling Pan
50 to 200 gal.

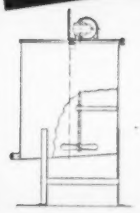
these LEE Units

WILL REDUCE YOUR PROCESSING COSTS!

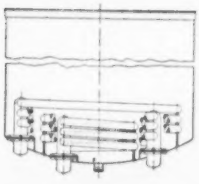
Individually designed for a specific processing operation and available in a wide range of sizes to fit your exacting requirements, Lee corrosion-resistant equipment is built to give you long years of peak performance with minimum maintenance.

Descriptive bulletins are available for any or all of the above units. Write for them today and discover how Lee can help reduce *your* processing costs.

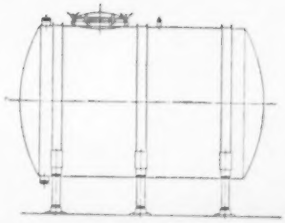
MIXING, COOKING & STORAGE TANKS



Mixing Tank
25 to 500 gal.



Pulp Tank
500 to 2,000 gal.



Storage Tank
100 to 5,000 gal.

LEE METAL PRODUCTS CO., INC.

408 PINE STREET,
PHILIPSBURG, PA.

ALL LEE KETTLES ARE MADE TO A.S.M.E. CODE

SWEET CORN

Associated Seed Growers, Inc., New Haven 2, Conn.
Charter Seed CCo., P.O. Box 191 Twin Falls, Idaho
Cornell Seed Co., 101 Chouteau Ave., St. Louis 2, Mo.
Gallatin Valley Seed Co., P. O. Box 240, Bozeman, Mont.
Michael-Leonard Co., Sioux City 6, Ia.
Northrup, King & Co., 1500 Jackson St., N. E., Minneapolis 13, Minn.

TOMATO

Associated Seed Growers, Inc., New Haven 2, Conn.
Burrell Seed Growers Co., D. V., Rocky Ford, Colo.
Cornell Seed Co., 101 Chouteau St., St. Louis 2, Mo.
Michael-Leonard Co., Sioux City 6, Ia.
Woodruff & Sons, Inc., F. H., Milford, Conn.

TURNIPS (For Greens)

Associated Seed Growers, Inc., New Haven 2, Conn.
Woodruff & Sons, Inc., F. H., Milford, Conn.

SECTION D

food ingredients and raw materials

1. ACACIA (Gum Arabic)

Innis, Speiden & Co., 117 Liberty St., New York 6, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.

2. ACIDS–Edible

American Maize Products Co., 100 W. 42nd St., New York 17, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

3. ALCOHOL

Publicker Industries, Inc., 1429 Walnut St., Philadelphia 2, Pa.
U. S. Industrial Chemicals, Inc., 60 E. 42nd, New York 17, N. Y.

4. ALUM

American Cyanamid & Chemical Corp., 30 Rockefeller Plaza, New York 20, N. Y.

5. AMIOCA

National Starch Products Inc., 270 Madison Ave., New York 16, N. Y.

6. ANTI OXIDANTS

Eastman Chemical Products, Inc., Kingsport, Tenn.
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

7. ASCORBIC ACID

Hoffman-La Roche, Inc., Vitamin Div., Nutley 10, N. J.
Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.

8. BEANS–Blackeye, Dried

Washburn—Wilson Seed Co., Moscow, Idaho

9. BEANS–Lima, Dried

Washburn—Wilson Seed Co., Moscow, Idaho

10. BEANS–Navy, Dried

Washburn—Wilson Seed Co., Moscow, Idaho

11. BEANS–Pinto

Washburn—Wilson Seed Co., Moscow, Idaho

12. BEANS–Red Kidney, Dried

Washburn—Wilson Seed Co., Moscow, Idaho

13. BEEF EXTRACT

The Griffith Laboratories, Inc., 1445 W. 37th St., Chicago 9, Ill.

14. BENZALDEHYDE

Florasynth Laboratories, Inc., 1533 Olmstead Ave., New York 61, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Ave., New York 11, N. Y.
Givaudan Flavors Inc., 330 W. 42nd St., New York 18, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

15. BENZOIC ACID

Seydel Chemical Co., 225 Mercer St., Jersey City 2, N. J.

16. CAROTENE

Barnett Laboratories, 6256 Cherry Ave., Long Beach 5, Calif.

17. CITRIC ACID

Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

18. CITRON

Stange Co., Wm. J., 342 N. Western Ave., Chicago 12, Ill.

19. CITRUS FRUIT CONCENTRATES

Fritzsche Brothers, Inc., 76 Ninth Ave., New York 11, N. Y.
Givaudan Flavors, Inc., 330 W. 42nd St., New York 18, N. Y.
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

20. COCKTAIL SAUCE

Tulkoff's Horseradish Products Co., 1016 E Lombard St., Baltimore 2, Md.

21. COLORING–Burnt Sugar

Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

22. COLOR–Caramel

The Griffith Laboratories, Inc., 1415 W. 37th St., Chicago 9, Ill.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Sethness Products Co., 1300 Division St., Chicago 22, Ill.

23. COLORS–Certified

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
National Aniline Division, Allied Chemical & Dye Corporation, 40 Rector St., New York 6, N. Y.
Warner-Jenkinson Mfg. Company, 2526 Baldwin St., St. Louis, Mo.

24. COLOR–Turmeric

Basic Food Materials, Inc., 845 State St., Vermillion, Ohio
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

25. CREAM OF TARTAR

Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.

26. DEXTRINES

Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.

27. DEXTROSE (Refined Corn Sugar)

American Maize Products Co., 100 W. 42nd St., New York 17, N.Y.
Corn Products Refining Co., 17 Battery Place, New York 4, N. Y.

28. EGG EMULSIFIERS AND STABILIZERS

Innis, Speiden & Co., 117 Liberty St., New York 6, N.Y.

29. EGGS–Dried

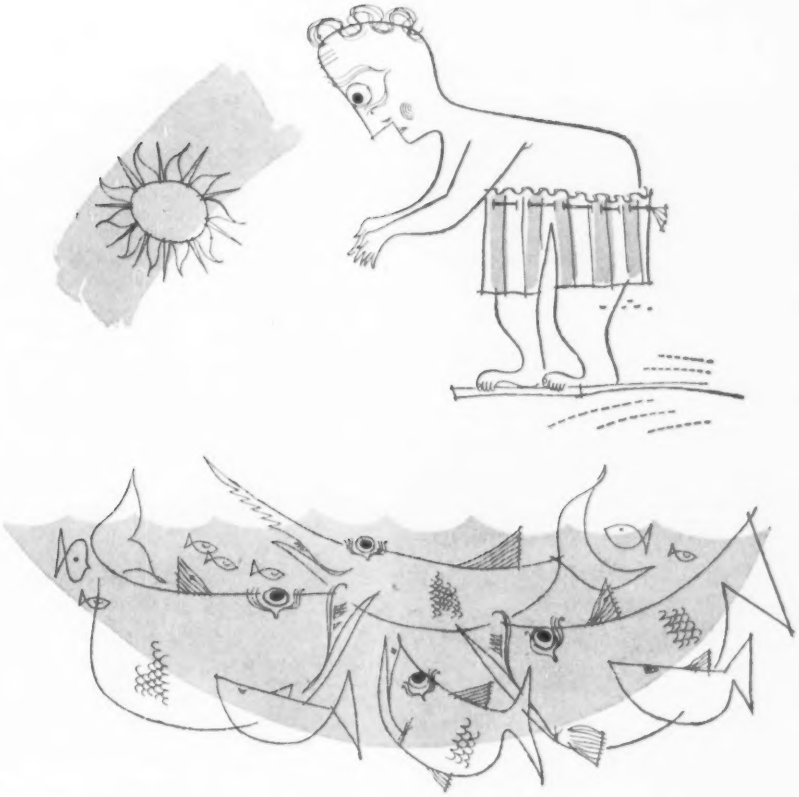
Watonga Produce & Canning Co., 309 N. Oklahoma St., Shawnee, Okla.

30. EGGS–Frozen

Watonga Produce & Canning Co., 309 N. Oklahoma St., Shawnee, Okla.

31. ETHYL ACETATE

Florasynth Laboratories, Inc., 1533 Olmstead Ave., New York, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Publicker Industries, Inc., 1429 Walnut St., Philadelphia 2, Pa.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y.



No Need to Go Overboard...

You can increase efficiency without building a new plant.

Take the LIXATE Process for making brine automatically, for instance.

A simple installation cuts handling and labor costs, delivers pure, constant, 100%-saturated brine to any point in your plant at the twist of a wrist. You use economical rock salt—and gravity does all the work—automatically, instantly.

The LIXATE Process is adaptable to your particular requirements. Write, and our representative will show you how.
No cost, no obligation.

THE INTERNATIONAL SALT COMPANY, INC.

INDUSTRIAL DIVISION, Scranton, Pa.

SALES OFFICES

Atlanta, Ga. • Chicago, Ill. • New Orleans, La.
Boston, Mass. • St. Louis, Mo. • Newark, N. J.
Buffalo, N. Y. • New York, N. Y. • Cincinnati, O.
Philadelphia, Pa. • Pittsburgh, Pa. • Richmond, Va.

ENGINEERING OFFICES

Atlanta, Ga. • Chicago, Ill. • Buffalo, N. Y.

32. FLOUR–Corn

The Griffith Laboratories, Inc., 1415 W. 37th St., Chicago 9, Ill.

33. FLOUR–Soy

Archer Daniels-Midland Co., 600 Roanoke Bldg., Minneapolis, Minn.

34. FLOUR–Wheat

Archer Daniels-Midland Co., 600 Roanoke Bldg., Minneapolis 2, Minn

35. GELATIN–Edible

Thomas W. Dunn Company, Inc., 340 Pearl St., New York 7, N. Y.

36. GLUCONIC ACID

Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.

37. GLUCOSE

American Maize Products Co., 100 W. 42nd St., New York 17, N.Y.

38. GLYCERINE

Glycerine Producers' Assn., 295 Madison Ave., New York 17, N. Y.

39. GUM TRAGACANTH

Innis, Speiden & Co., 117 Liberty St., New York 6, N.Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.

40. HORSERADISH

Tulkoff's Horseradish Prod. Co., 1016 E. Lombard St., Baltimore 2, Md.

41. LACTIC ACID

American Maize Products Co., 100 W. 42nd St., New York 17, N.Y.

42. LECITHIN

Archer Daniels-Midland Co., 600 Roanoke Bldg., Minneapolis 2, Minn.

43. METHYL SALICYLATE

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.

44. MOLASSES

American Molasses Co., 120 Wall St., New York 5, N. Y.

45. MOLD INHIBITORS

Buffalo Electro-Chemical Co., Station B, Buffalo 7, N. Y.
Seydel Chemical Co., 225 Mercer St., Jersey City 2, N. J.

46. MONOSODIUM GLUTAMATE

Accent (International Minerals & Chemical Corp.) 20 N. Wacker Dr., Chicago 6, Ill.
Basic Food Materials, Inc., 845 State St., Vermillion, Ohio
The Griffith Laboratories, Inc., 1415 W. 37th St., Chicago 9, Ill.
The Huron Milling Co., Inc., 9 Park Pl., New York 7, N. Y.
Innis, Speiden & Co., 117 Liberty St., New York 6, N.Y.
Staley Mfg. Co., A. E., Decatur 60, Ill.

47. OIL–Cottonseed

Humko Co., The, Memphis 1, Tenn.
Lever Bros., Co., 50 Memorial Dr., Cambridge 39, Mass.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Proctor & Gamble Co., P.O. Box 599, Cincinnati 1, Ohio

48. OIL–Olive

Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

49. OIL–Peanut

Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

50. OIL–Soybean

Archer Daniels-Midland Co., 600 Roanoke Bldg., Minneapolis 2, Minn.

51. ONION–Dry Flavoring

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

52. ORANGE PEEL

Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

53. PECTIN–Apple

Speas Company, 2400 Nicholson, Kansas City 1, Mo.

54. PECTIN–Citrus

Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

55. PEPPER HULLS–In Brine

Basic Food Materials, Inc., 845 State St., Vermilion, Ohio
J. P. Snapp & Son, Limestone, Tenn.
Speas Company, 2400 Nicholson, Kansas City 1, Mo.

56. PROPYLENE GLYCOL

Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

57. SACCHARIN

Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

58. SAGO

Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.

59. SALT–Sodium Chloride

Diamond Crystal-Colonial Salt Div., General Foods Corp., St. Clair, Mich.
International Salt Co., Inc., Scranton 2, Pa.
Morton Salt Company, 120 S. La Salle St., Chicago 3, Ill.

60. SALT TABLETS

Diamond Crystal-Colonial Salt Div., General Foods Corp., St. Clair, Mich.
International Salt Co., Inc., Scranton 2, Pa.
Morton Salt Company, 120 S. La Salle St., Chicago 3, Ill.

61. SAUSAGE BINDERS

Archer Daniels-Midland Co., 600 Roanoke Bldg., Minneapolis 2, Minn.

62. SODIUM BENZOATE

Basic Food Materials Inc., 845 State St., Vermillion, Ohio
Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.
Seydel Chemical Company, 225 Mercer St., Jersey City 2, N. J.

63. SODIUM CITRATE

Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

64. STABILIZERS AND BINDERS

Basic Food Materials, Inc., 845 State St., Vermillion, Ohio
Innis, Speiden & Co., 117 Liberty St., New York 6, N. Y.
National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.

65. STARCH–Corn

American Maize Products Co., 100 W. 42nd St., New York 17, N. Y.
Corn Products Refining Co., 17 Battery Place, New York 4, N. Y.
National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.

66. STARCH–Potato

Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.

67. STARCH–Wheat

Huron Milling Co., Inc., 9 Park Pl., New York 7, N. Y.

68. SUGAR–Cane

American Molasses Co., 120 Wall St., New York 5, N. Y.

69. SUGAR–Invert

American Molasses Co., 120 Wall St., New York, N. Y.

70. SUGAR–Liquid

American Molasses Co., 120 Wall St., New York 5, N. Y.

71. SYRUP–Corn

American Maize Products Co., 100 W. 42nd St., New York 17, N. Y.
Corn Products Refining Co., 17 Battery Place, New York 4, N. Y.
Staley Manufacturing Co., A. E., Decatur 60, Ill.

72. TAPIOCA

National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.
Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.

73. TARTARIC ACID

Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.

74. VEGETABLE PROTEINS (Hydrolyzed)

Huron Milling Co., Inc., 9 Park Pl., New York 7, N. Y.

75. VINEGAR–Cider

Richter Sons Co., A. M., 710 Madison St., Manitowoc, Wis.

woodruff seed

FOR A BETTER PACK OF *Beans*

Section of F. H. Woodruff & Sons' Breeding Grounds at Sacramento, Cal.

Inset shows Woodruff's Hyscore, one of our new white seeded, green snap beans recently introduced.

NEW STRAINS

worth your consideration, result from the kind of BREEDING research and patient development for which the name WOODRUFF is famous. Vast trial grounds, strategically located throughout the country give you better strains, more often, more quickly. Depend on the name WOODRUFF for quality.

F. H. Woodruff SEEDS

F. H. WOODRUFF & Sons, Inc.

Seed Growers Milford, Conn., Bellerose, L. I., Salisbury, Md., Atlanta, Sacramento, Dallas, Mercedes, Tex., Toledo

Speas Co., 2400 Nicholson, Kansas City 1, Mo.

76. VINEGAR–Malt

Richter Sons Co., A. M., 710 Madison St., Manitowoc, Wis.

77. VINEGAR–Tarragon

Richter Sons Co., A. M., 710 Madison St., Manitowoc, Wis.

78. VINEGAR–White, Distilled

Richter Sons Co., A. M., 710 Madison St., Manitowoc, Wis.
Speas Company, 2400 Nicholson, Kansas City 1, Mo.

79. VINEGAR–Wine

Basic Food Materials Inc., 845 State St., Vermilion, Ohio
Richter Sons Co., A. M., 710 Madison St., Manitowoc, Wis.

80. VITAMINS–Ascorbic

Hoffman-LaRoche, Inc., Vitamin Div., Nutley 10, N. J.
Pfizer & Co., Inc., Chas., 630 Flushing Ave., Brooklyn, N. Y.

81. VITAMINS–Carrot Oil

Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.

82. WORCESTERSHIRE SAUCE

Basic Food Materials, Inc., 845 State St., Vermilion, Ohio

83. SPICES, ESSENTIAL OILS AND OLEORESINS

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Griffith Laboratories, Inc., 1415 W. 37th St., Chicago, Ill.
Wm. J. Stange Co., 342 N. Western Ave., Chicago 12, Ill.

84. ALLSPICE

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

85. ALMOND OIL–Bitter

Florasynth Laboratories, Inc., 1533 Olmstead Ave., New York, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

86. AMYL ACETATE (Banana Flavor)

Florasynth Laboratories, Inc., 1533 Olmstead Ave., New York 61, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y.

87. ANISE

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

88. BASIL

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

89. BAY LEAVES (OR LAUREL)

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

90. CAPSICUM

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

91. CARAWAY

Knickerbocker Mills Co., 601 W. 26th St., New Yoek 1, N. Y.

92. CARDAMON

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

93. CASSIA

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

94. CELERY

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

95. CINNAMON

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

96. CLOVES

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

97. CORIANDER SEED

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

98. CUMIN SEED

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

99. DILL

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

100. FENNEL SEED

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

101. FENUGREEK SEED

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

102. GARLIC

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.
Tulkoff's Horseradish Products Co., 1016 E. Lombard St., Baltimore 2, Md.

103. GINGER

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y

104. LEMON

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

105. LIME

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
The Gibsonburg Lime Products Co., Gibsonburg, Ohio
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

106. MACE

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

107. MARJORAM

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

108. MINT

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

109. MUSTARD SEED

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

110. NUTMEG

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

111. ONION SALT

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

112. ORANGE

Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y
Sunkist Growers, Products Dept., 616 E. Grove St., Ontario, Calif.

113. OREGANO–Mexican Sage

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

114. PAPRIKA

Gentry, Inc., P.O. Box 2076, Terminal Annex, Los Angeles 54, Calif.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

115. PEPPER–Black

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.

116. PEPPER–Chili, Red

Basic Food Materials, Inc., 845 State St., Vermillion, Ohio
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

117. PEPPERMINT

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

New cucumber resistant to spot rot or scab

S.R.-6 was developed by Dr. Walker and his associates at the U. of Wisconsin to resist spot rot or scab. Numerous field trials prove it does just that.

A cross between Maine #2 and National Pickling, S.R.-6 is similar in type to National. Color of processed fruit good! An excellent field performer, S.R.-6 gives a high yield of spot-free pickles. Has vigorous vine and good leaf coverage. Seed now available for this year's planting.

BUY THE DEPENDABLE SEED

Bean	Pea
Beet	Pumpkin
Cabbage	Radish
Carrot	Rutabaga
Cucumber	Spinach
Lettuce	Squash
Melon	Sweet Corn
Onion	Turnip and
Parsnip	many others

NK®

NORTHRUP, KING & CO.

MINNEAPOLIS 13, MINNESOTA

Also well known for: Kingscrost Hybrid Corn, Northland and Westland Farm Seeds, Pioneer Alfalfa and Golf Brand Lawn products

118. PIMIENTO

Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

119. PIMIENTO—In Brine

Snapp & Son, J. P., Limestone, Tenn.

120. ROSEMARY

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

121. SAGE

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

122. SAVORY

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

123. SESAME

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

124. SPEARMINT

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

125. THYME

Basic Food Materials, Inc., 845 State St., Vermillion, Ohio
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

126. TURMERIC

Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.

127. VANILLA

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Givaudan Flavors Inc., 330 W. 42nd St., New York 18, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

128. VANILLIN

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers Inc., 76 Ninth Ave., New York 11, N. Y.
Givaudan Flavors Inc., 330 W. 42nd St., New York 18, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

129. WINTERGREEN OIL—Methyl Salicylate

Givaudan Flavors Inc., 330 W. 42nd St., New York 18, N. Y.
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., New York 13, N. Y.

SECTION E

freezing equipment and supplies

1. ALARMS—Temperature Rise

Tork Clock Co., Inc., 2 Grove St., Mount Vernon, N. Y.

2. ASCORBIC ACID

Hoffman-La Roche, Inc., Vitamin Division, Nutley 10, N. J.

3. BLOWERS

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.

4. BRINE COOLERS

Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.

5. BRINE PUMPS AND CIRCULATORS

Jabsco Pump Co., 2031 N. Lincoln St., Burbank, Calif.

6. BRINE TANKS

Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.
Morton Salt Co., 120 S. LaSalle St., Chicago 3, Ill.

7. CAR ICING EQUIPMENT

Canvas Products Co., 622 Prospect Ave., Kansas City, Mo.
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.

8. CONDENSERS

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.

9. COOLING TOWERS

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.

10. DEFROSTING CONTROLS

Lumenite Electronic Co., 407 S. Dearborn St., Chicago 5, Ill.
Tork Clock Co., Inc., 1 Grove St., Mount Vernon, N. Y.

11. DEHYDRATORS

Sporlan Valve Co., 7525 Sussex Ave., St. Louis 17, Mo.

12. DIFFUSERS—Air

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.

13. DOORS—Cold Storage and Vestibules

Streator Products Corp., P. O. Box 398, Fairfield, Iowa

14. DRY ICE

Mathieson Chemical Corp., Mathieson Bldg., Baltimore, Md.

15. EVAPORATORS

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.
The Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.

16. EXPANSION VALVES

Sporlan Valve Co., 7525 Sussex Ave., St. Louis 17, Mo.

17. FILTERS—Refrigerant

Commercial Filters Corp., 18 W. Third St., Boston 27, Mass.
Sporlan Valve Co., 7525 Sussex Ave., St. Louis 17, Mo.

18. FIN COILS

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.

19. FITTINGS—Pipe

Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.

20. FREEZERS—Blast Type

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.
C. Schmidt Co., 1712 John St., Cincinnati 14, Ohio

21. FREEZERS—Quick

Barry-Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.
C. Schmidt Co., 1712 John St., Cincinnati 14, Ohio

22. GAUGES—Ammonia

Weksler Thermometer Corp., 52 W. Houston St., New York 12, N. Y.

23. GAUGES—Freon

Weksler Thermometer Corp., 52 W. Houston St., New York 12, N. Y.

24. HEAT EXCHANGERS

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.

25. HUMIDIFIERS

Armstrong Machine Works, Three Rivers, Mich.

26. HUMIDITY TESTERS

Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Weston Electrical Instrument Corp., 614 Frelinghuysen, Newark 5, N. J.

(Continued on page 69)

Good Taste

MAKES SALES SOAR

STANGE

CREAM·OF·SPICE

SEASONINGS

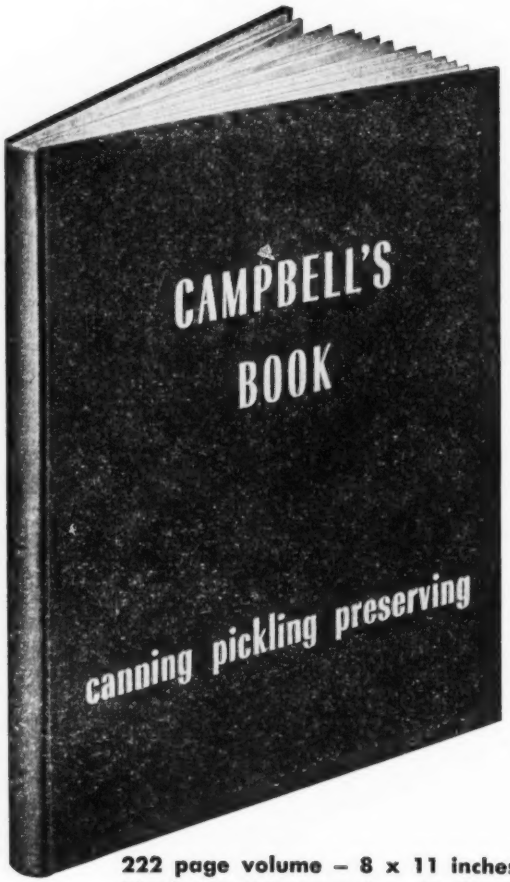
Flavors America's Finest Food Products

©1953 WM. J. STANGE COMPANY
CHICAGO 12, ILL. • OAKLAND 21, CALIF.
In Canada: Stange-Pemberton, Ltd.
New Toronto, Ont. Printed in U.S.A.

If your PRODUCT is listed here—you should have a copy of CAMPBELL'S BOOK

Apples
Apricots
Blackberries
Blueberries
Cherries
Cranberries
Currants
Gooseberries
Grapefruit
Grapes
Loganberry
Peaches
Pears
Pineapple
Plums
Prunes
Quinces
Raspberries
Rhubarb
Asparagus
Beans (Snap)
Beans (Lima)
Beets
Carrots
Cauliflower
Corn
Okra
Onions
Peas
Chili Peppers or Pimientoes
Potatoes
Pumpkin
Sauer Kraut
Spinach
Succotash
Sweet Potatoes
Tomatoes
  Products
  Paste
  Puree
  Catsup
  Chili Sauce
Baby & Junior Foods
Boston Baked Beans
Juices
  Apple
  Grape
Canned Soups
  Asparagus
  Bean
  Beef Bouillon
  Beef Broth
  Consomme
  Cream of Celery
  Cream of Corn
  Clam Chowder
  Chicken Soup Stock
  Chicken Bouillon or Broth
  Chicken with Noodles
Old La. Chicken Gumbo
  Mock Turtle Soup
  Cream of Mushroom
  Oxtail Soup
  Okra
  Soya Milk Stock
  Oyster
  Green Pea
  Scotch Pea
  Pepper Pot
  Cream of Potato
  Cream of Spinach
  Cream of Tomato
  Vegetable
Spaghetti
Canned Meats
  Corned Beef
  Corned Beef Hash
  Luncheon
  Hamburger
  Beef & Pork Sausage
  Meat & Veg. Stew
  Meat Balls & Spaghetti
  Meat and Noodle Prod.
  Beans with Frankfurters
  Ham & Lima Beans
  Chili Con Carne
  Beef or Pork Tongues
  Paste Type Products
  Bacon
  Beef, Veal or Mutton
  Beef & Gravy or Pork & Gravy
  Chicken Products
  Beef Stew
  Lamb Stew
  Irish Stew
  Brunswick Stew
  Pork Luncheon
  Spiced Ham
Canned Chicken & Chicken Products
  Chicken Stewed
  Roast
  Fricassee
  In Pieces
  Chicken A La King
  Chicken & Noodles
  Diced Chicken
  Chicken Sandwich Spread
  Deviled Chicken
  Potted Chicken
  Chicken Giblets
Jellies
  Apples
  Currant
  Grape
  Quince
  Pectin Fruit
  Imitation Fruit
  Gelatin
  Agar
Jams & Preserves
  Apricot
  Cranberry Sauce
  Peach
  Raspberry
  Strawberry
  Pectin Fruit
  Imitation Fruit
Butters & Marmalades
  Apple
  Peach
  Apricot
  Prune
Mfg. Marmalades
  English Seville Orange
  Ginger
  Grapefruit
American Orange
  Tangerine
  Lemon
Crushed & Glazed Fruits
  Strawberries
  Pineapple
  Maraschino Cherries
Fruit Juices
  Sweet Cider
  Concentrated Cider
  Grape
  Orange
  Lemon
  Cherry
  Rhubarb
Pickling
  Cucumbers
  Cauliflower
  Green Tomatoes
  Peppers
    Green, Red
  Chopped Cabbage
  Cabbage Cores
  Dill Herb, or Weed
  Onions
  Wax Beans
  Mango Peppers
  Watermelon Rind
  Cantaloupe
Misc. Sauces
  Horse Radish
  Soya
  English Beefsteak
  Worcestershire
    Or Worcester
  Calcutta
  Beef Relish
  Lobster
  Russian
  Olivenaise
  Thousand Island
  Tartar
  Canadian Club
  Fruit Salad Dressing
  Pepper
  Tobasco
  Walnut Catsup
  Mushroom Catsup
Mayonnaise & Salad Dressings
  French
  Anchovy
  Chutney
  Catsup or Ketchup
  Piquante
  Parisian
  Spinosa
Mustard
  Compound
  French Style
  Dutch Style
  Dusseldorf
  Hamburg
  Paprika
  Tobasco
  Belgian or German
  Horse Radish
  Spiced Mustard
  Salad Style

NOW . . . . .
NEW REVISED EDITION



222 page volume – 8 x 11 inches. New ideal size – big enough to lie flat – easier to use, easier to read!

CAMPBELL'S BOOK

- CANNING
- PICKLING
- PRESERVING

Charts, tables and formulas are prepared to be taken directly into the quality control laboratory. No extra computation or seeking further details from other sources will be necessary. In preparing specialty products, details are presented on the type of ingredients used, the quantity necessary for a given end volume and the necessary operations to make the combination of ingredients a high quality pack.

Photographs and diagrams which accompany the details show latest equipment in action. Specific information is available for products whether they are packed in a metal or glass container, as well as recommended fill for various container sizes.

Revised by two noted food technologists! Dr. Maclinn, Chairman, Food Technology Department, New Jersey Agricultural Experiment Station, and Col. Isker, U. S. Army (Ret.) is Secretary, Associates of the Food and Container Institute.

Send your check for $15.00 to Vance Publishing Corp., 139 N. Clark St., Chicago 2, Ill.

(Continued from page 66)

27. INSULATION—Asbestos

Standard Asbestos Manufacturing Co., 860 W. Evergreen Ave., Chicago 22, Ill.

28. INSULATION—Cork

Armstrong Cork Co., Glass & Closure Div., Lancaster, Pa.
Standard Asbestos Mfg. Co., 860 W. Evergreen Ave., Chicago 22, Ill.

29. INSULATION—Mineral Wool

Armstrong Cork Co., Glass & Closure Div., Lancaster, Pa.
Standard Asbestos Mfg. Co., 860 W. Evergreen Ave., Chicago 22, Ill.

30. LUBRICANTS

Lubriplate Division, Fiske Bros. Refining Co., 129 Lockwood St., Newark 5, N. J.

31. MOISTURE INDICATORS

Tagliabue Instruments Div., Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Co., 95 Ames St., Rochester 1, N. Y.

32. NOZZLES

Spraying Systems Co., 3201 Randolph St., Bellwood, Ill.

33. PRESSURE CONTROLS

Tagliabue Corp. C. J., 614 Frelinghuysen Ave., Newark 5, N. J.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.

34. PRESSURE GAUGES

Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Weksler Thermometer Corp., 52 W. Houston St., New York 12, N. Y.

35. PUMPS—Refrigerant

Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.

36. PURGERS—Air from Refrigerant

Armstrong Machine Works, Three Rivers, Mich.

37. REFRIGERANTS—Ammonia

Du Pont de Nemours & Co., E. I., Wilmington 98, Del.

38. REFRIGERANTS—Methyl Chloride

Du Pont de Nemours & Co., E. I., Wilmington 98, Del.

39. REFRIGERANTS—Non-Poisonous

Du Pont de Nemours & Co., E. I., Wilmington 98, Del.

40. REFRIGERATORS—Commercial

C. Schmidt Co., 1712 John St., Cincinnati 14, Ohio

41. REFRIGERATORS—Truck Cooling

U. S. Thermo Control Co., 44 S. 12th St., Minneapolis 3, Minn.

42. STRAINERS—Refrigerant

Sporlan Valve Co., 7525 Sussex Ave., St. Louis 17, Mo.

43. TANKS—Pressure

Groen Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.
Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.

44. TANKS—Water Storage

Amos H. Hall & Sons, 5500 N. Water St., Philadelphia 20, Pa.
Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.

45. TEMPERATURE INSTRUMENTS AND HUMIDITY CONTROLS

The Electric Auto-Lite Co., Instrument & Gauge Div., Toledo 1, Ohio
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Weksler Thermometer Corp., 52 W. Houston St., New York 12, N. Y.
Weston Electrical Instrument Corp., 614 Frelinghuysen, Newark 5, N. J.

46. UNIT COOLERS

Kramer Trenton Co., Olden & Breuning Aves., Trenton 5, N. J.

47. VALVES—Ammonia, and Fittings

Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.

48. VALVES—Back Pressure

Klipfel Valves, Inc., 1075 Lincoln Ave., Hamilton, Ohio

SECTION F

plant maintenance, sanitation & operating supplies

1. APRONS—Plastic

Milburn Co., 3246 E. Woodbridge, Detroit 7, Mich.

2. APRONS—Rubber

Elin Manufacturing Co., 102 E. 5th St., Rochester, Ind.
Surety Rubber Co., N. High St., Carrollton, Ohio

3. APRONS—Work

Elin Manufacturing Co., 102 E. 5th St., Rochester, Ind.
Milburn Co., 3246 E. Woodbridge, Detroit 7, Mich.
Surety Rubber Co., N. High St., Carrollton, Ohio

4. BATTERIES—Storage

Edison Storage Battery Div., Thomas A. Edison, Inc., West Orange, N. J.

5. BOOTS—Rubber

United States Rubber Company, 1234 Sixth Ave., New York 20, N. Y.

6. BORAX

American Cyanamid & Chemical Corp., 30 Rockefeller Pl., New York 20, N. Y.
Innis, Speiden & Co., 117 Liberty St., New York 6, N. Y.
Pittsburgh Plate Glass Co., Columbia Chemical Div., 5th at Rockefeller, Pittsburgh 13, Pa.

7. BRUSHES—Industrial Cleaning

Schaefer Brush Mfg. Co., 117 W. Walker St. Milwaukee 4, Wis.

8. BRUSHES—Pipe and Tube Cleaning

Dairy Specialties, Inc., Sandy Hook, Conn.
Schaefer Brush Mfg. Co., 117 W. Walker St. Milwaukee 4, Wis.

9. BRUSHES—Utensil Hand Cleaning

Schaefer Brush Mfg. Co., 117 W. Walker St. Milwaukee 4, Wis.

10. CASTERS AND WHEELS

Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
Ironbound Box & Lumber Co., 42 Hoffman Place, Hillside, N. J.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Rapids-Standard Company, 510 Peoples Natl. Bank Bldg., Grand Rapids 2, Mich.

11. CEMENT—Acid and Alkali-Proof

Atlas Mineral Products Co., The, Mertztown, Pa.
Nukem Products Corporation, 111 Colgate St., Buffalo 20, N. Y.
U. S. Stoneware Co., The, 60 E. 42nd St., New York 17, N. Y.

12. CLEANER—Floor

The Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Lynn Mfg. Co., 1121 S. 7th St., Minneapolis, Minn.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.

Pittsburgh Plate Glass Co., Columbia Chemical Div., 5th at Rockefeller, Pittsburgh 13, Pa.
Solvit Chemical Co., Speedway Rd., Madison 5, Wis.

13. CLEANER—Pressure

Clayton Mfg. Co., Box 550, El Monte, Calif.
Lynn Mfg. Co., 1121 S. 7th St., Minneapolis, Minn.

14. CLEANER—Window

The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.

15. COMPOUNDS—Container Washing

Clayton Mfg. Co., Box 550, El Monte, Calif.
The Diversey Corp., 1820 Roscoe St. Chicago 13, Ill.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.

16. COMPOUNDS—Germicidal

The Diversey Corp., 1820 W. Roscoe St., Chicago 13, Ill.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Solvit Chemical Co., Speedway Rd., Madison 5, Wis.

17. COMPOUNDS—Hand Cleaning

Milburn Co., 3246 E. Woodbridge, Detroit 7, Mich.

18. COMPOUNDS—Scale Removal

The Diversey Corp., 1820 W. Roscoe St., Chicago 13, Ill.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.

19. CONCRETE HARDENER

Tufcrete Company, Inc., 502 E. Locust St., Des Moines, Iowa

20. CONVEYORS—Portable

Berlin Chapman Co., Berlin, Wis.
Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Food Machinery & Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.
Island Equipment Corporation, 27-01 Bridge Plaza, N., Long Island City 1, N. Y.
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.
The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.
Rapids-Standard Company, 510 Peoples Natl. Bank Bldg., Grand Rapids 2, Michigan
Standard Conveyor Company, North St. Paul 9, Minnesota

21. CONVEYORS—Roller

Bridge Food Machiery Co., 7124 James St., Philadelphia 35, Pa.
Food Machinery Corp., Canning Machinery Div., Hoopeston, Ill., or San Jose 6, Calif.
Island Equipment Corp., 27-01 Bridge Plaza N., Long Island City 1, N. Y.
Link-Belt Company, 307 N. Michigan Ave., Chicago 1, Ill.
The Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.
Rapids-Standard Company, 510 Peoples Natl. Bank Bldg., Grand Rapids 2, Michigan
Standard Conveyor Company, North St. Paul 9, Minnesota

22. DEODORIZERS

Sanitron, Inc., 24-10 40th Ave., Long Island City 1, N. Y.
Solvit Chemical Co., Speedway Rd., Madison 5, Wis.

23. DETERGENTS

Clayton Mfg. Co., Box 550, El Monte, Calif.
The Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.
Klenzade Products, Inc., Beloit, Wis.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Solvit Chemical Co., Speedway Rd., Madison 5, Wis.

24. DISINFECTANTS

The Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Solvit Chemical Co., Speedway Rd., Madison 5, Wis.

25. DOLLIES

The Fairbanks Co., 393 Layfayette St., New York 3, N. Y.
Ironbound Box & Lumber Co., 42 Hoffman Place, Hillside, N. J.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 5, Ill.

26. DRAINS—Floor

Drehmann Paving & Flooring Co., N. W. Cor. Gaul & Tioga Sts., Philadelphia 34, Pa.

27. ELECTRIC FLY SCREENS

Detjen Corp., Elec. Fly Screen Div., 303 W. 42nd St., New York 18, N. Y.

28. ENGINES—Diesel

Fairbanks Morse & Co., 600 S. Michigan Ave., Chicago, Ill.

29. ENGINES—Gasoline

Allis-Chalmers Manufacturing Co., Milwaukee 1, Wis.
Chisholm-Ryder Co., Inc., College & Highland Aves., Niagara Falls, N. Y.
Fairbanks Morse & Co., 600 S. Michigan Ave., Chicago, Ill.

30. EXTERMINATORS—Rodent, etc.

Solvit Chemical Co., Speedway Rd., Madison 5, Wis.
Wil-Kil Exterminator Co., Inc., 522 W. North Ave., Milwaukee, Wis.

31. FLOOR MATS

The U. S. Stoneware Co., 60 E. 42nd St., New York 17, N. Y.

32. FLOOR RESURFACING

Drehmann Paving & Flooring Co. N. W. Cor. Gaul & Tioga Sts., Philadelphia 34, Pa.
Stonhard Company 1306 Spring Garden St., Philadelphia 23, Pa.
Tufcrete Company, Inc., 502 E. Locust St., Des Moines, Iowa

33. FLY CATCHERS

Detjen Corp., Electric Screen Div., 303 W. 42nd St., New York 18, N. Y.
Wil-Kil Pest Control Co., 522 W. North Ave., Milwaukee, Wis.

34. FUMIGANTS

The Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Wil-Kil Pest Control Co., 522 W. North Ave., Milwaukee, Wis.

35. FUMIGATORS—Industrial

Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Wil-Kil Pest Control Co., 522 W. North Ave., Milwaukee, Wis.

36. GLOVES—Plastic Coated

Milburn Co., 3246 E. Woodbridge, Detroit 7, Mich.

37. GLOVES—Rubber

Surety Rubber Company, N. High St., Carrollton, O.

38. GUNS—Spray

Kromer Co., O. W., 1120 Emerson Ave., N., Minneapolis 11, Minn.

39. HUMIDIFIERS

Armstrong Machine Works, Three Rivers, Mich.
Spraying Systems Co., 3201 Randolph St., Bellwood, Ill.

40. KNIVES—Canners

Bridge Food Machinery Co., 7124 James St., Philadelphia 35, Pa.
Food Machinery and Chemical Corp., Canning Machinery Div., San Jose 6, Calif., or Hoopeston, Ill.

41. LIFT TRUCKS

Clark Tructractor Div. of Clark Equipment Co., Battle Creek 66, Mich.
Elwell-Parker Electric Co., 4275 St Clair Ave., Cleveland 3, Ohio
Hyster Co., 2924 N.E. Clackamas St., Portland 8, Ore.
Material Handling Equip. Co., 141 E. 44th St., New York, N. Y.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

42. LIGHTING FIXTURES (Fluorescent)

Fullerton Manufacturing Corp., 17 Chestnut St., South Norwalk, Conn.

43. LIGHTING SYSTEMS

Fullerton Manufacturing Corp., 17 Chestnut St., South Norwalk, Conn.

44. LUBRICANT—Conveyor Chain

Oakite Products, Inc., 19 Rector St., New York 6, N. Y.

45. OILS—Lubricating, and Greases

Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.
Lubriplate Div. of Fiske Brothers Refining Co., 129 Lockwood St., Newark 5, N. J.

46. PAINT

American-Marietta Co., 101 E. Ontario St., Chicago 11, Ill.
Barry-Wehmiller Machinery Co., 4660 W. Florissant Ave., St. Louis 15, Mo.

(Continued on page 74)

Color Control for Food Processors

Color, as well as flavor, sells the foods you process. Macbeth equipment for food color and grade quality control takes the guesswork out of grading and inspection, standardizes your production, assures uniform marketable products.

Macbeth Executive Daylight Lamp - Desk-top sized source of Macbeth north sky daylight for standardized, accurate color and grade control by supervisory personnel in the office, plant or laboratory, 24 hours a day. For use with both raw and processed products.

Macbeth-Munsell Disk Colorimeter - Especially useful to tomato processors. Permits standardized grading of tomato products against pre-determined, U.S.D.A. specified, Munsell color disks. Produces Macbeth north sky daylight. Other Munsell color papers for other products are also available.

Macbeth Examolite® Fixture - For low-cost, accurate illumination of working and inspection areas where color corrected illumination is needed for grading and sorting. Combination of incandescent and fluorescent light. Features the new Macbeth Examolite® Fluorescent tubes, color corrected for accuracy and stability.

Macbeth color control equipment is designed for correlated use throughout the entire plant, assuring complete standardization of your control work. Please write for further information.

The Macbeth Executive Daylight Lamp fits conveniently on the executive's desk

MACBETH

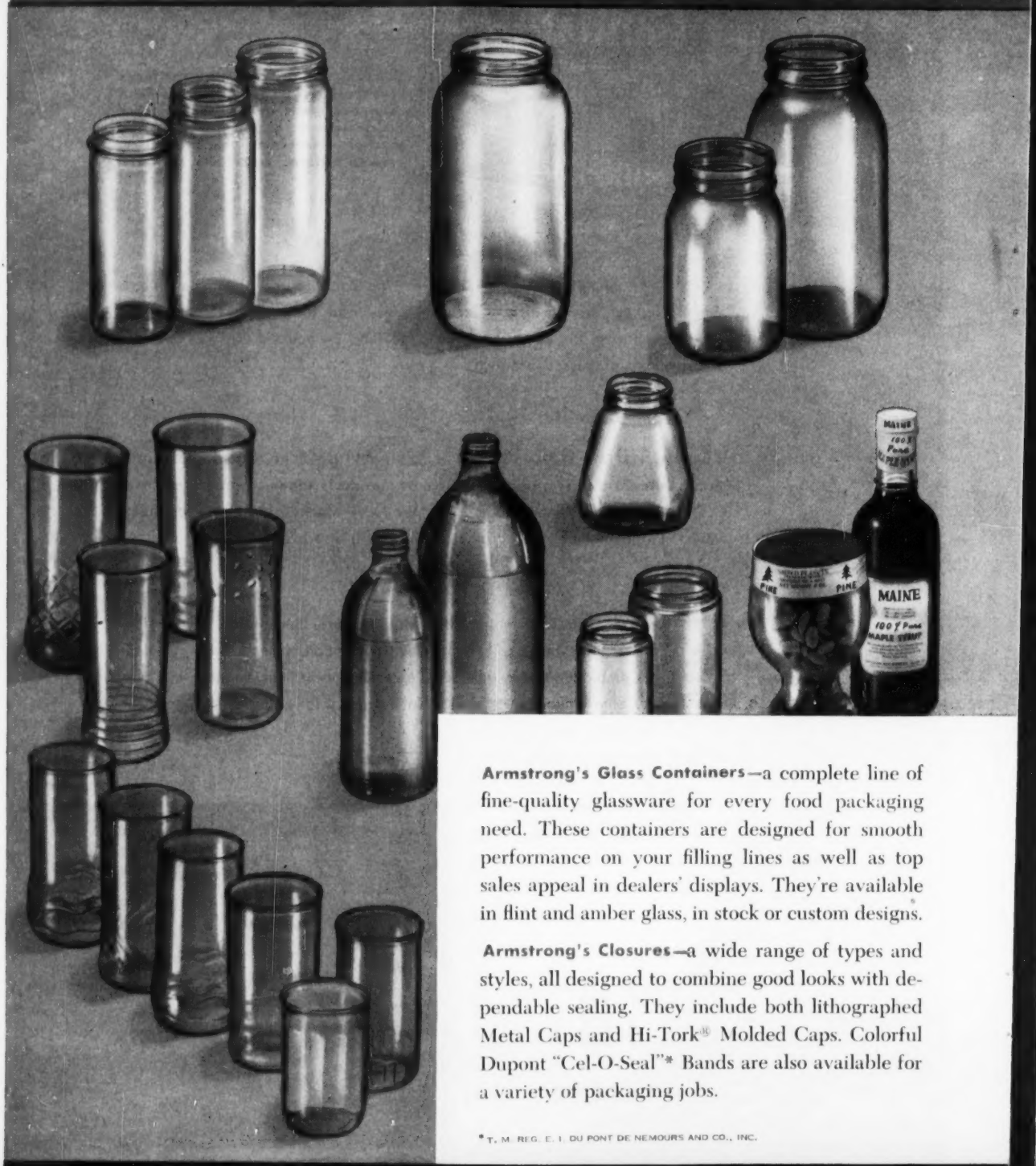
Daylighting Corporation

a subsidiary of the Macbeth Corp.

NEWBURGH, N. Y.

There is a Macbeth representative in your territory.

ARMSTRONG'S GLASS *and*



Armstrong's Glass Containers—a complete line of fine-quality glassware for every food packaging need. These containers are designed for smooth performance on your filling lines as well as top sales appeal in dealers' displays. They're available in flint and amber glass, in stock or custom designs.

Armstrong's Closures—a wide range of types and styles, all designed to combine good looks with dependable sealing. They include both lithographed Metal Caps and Hi-Tork® Molded Caps. Colorful Dupont "Cel-O-Seal"* Bands are also available for a variety of packaging jobs.

*T. M. REG. E. I. DU PONT DE NEMOURS AND CO., INC.

ARMSTRONG CORK COMPANY

CLOSURES

COMPLETE PACKAGING AND PACKAGE-DESIGN SERVICE

Our packaging specialists will be glad to work with you in planning your package for maximum efficiency and buy-appeal. They'll study your product and your selling program, then design a container, label, or closure that's tailored to your particular situation. Or you can take advantage of our new Research and Development Center to get technical advice on your packaging operation.

For complete information, just contact your nearest Armstrong office or write to Armstrong Cork Company, Glass and Closure Division, 5400 Cherry Street, Lancaster, Penna.

***Glass and Closure Division*, LANCASTER, PA.**

(Continued from page 70)

Du Pont de Nemours & Co., E.I., Wilmington 98, Del.
Tufcrete Company, Inc., 502 E. Locust St., Des Moines, Iowa

47. PAINT–Acid and Alkali-Proof

Atlas Mineral Product Co., The, Mertztown, Pa.
Nukem Products Corporation, 111 Colgate St., Buffalo 20, N. Y.
U. S. Stoneware Co., The, 60 E. 42nd St., New York 17, N. Y.

48. PAINT–Aluminum

Tufcrete Company, Inc., 502 E. Locust St., Des Moines, Iowa

49. PAINT–Germicidal and Preservative

Du Pont de Nemours & Co., E. I., Wilmington 98, Del.

50. PALLETS–Metal

Clark Tructractor Div. of Clark Equipment Co., Battle Creek 66, Mich.

51. PALLETS–Wooden

Clark Tructractor Div. of Clark Equipment Co., Battle Creek 66, Mich.
Ironbound Box & Lumber Co., 42 Hoffman Place, Hillside, N. J.

52. PIPE AND BOILER COVERING

Standard Asbestos Mfg. Company, 860 W. Evergreen Ave., Chicago 22, Ill.

53. PLATFORMS–Lift

Ironbound Box & Lumber Co., 42 Hoffman Place, Hillside, N. J.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

54. PUMPS–Deep Well

Byron Jackson Co., PO Box 2017 Terminal Annex, Los Angeles 54, Calif.

55. ROOFING

Tufcrete Company, Inc., 502 E. Locust St., Des Moines, Iowa

56. RUST–ANTI COMPOUNDS

American Marietta Co., 101 E. Ontario St., Chicago 11, Ill.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.

57. SCREEN WIRE

Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.

58. SCREENS–Electric

Detjen Corp., Elec. Fly Screen Div., 303 W. 42nd St., New York 18, N. Y.

59. SKIDS–Barrel

The Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
Ironbound Box & Lumber Co., 42 Hoffman Pl., Hillside, N. J.

60. SOAPS AND SOAP POWDERS

Oakite Products, Inc., 19 Rector St., New York 6, N. Y.

61. SODIUM HYDROXIDE

Du Pont de Nemours & Co., E. I., Wilmington 98, Del.

62. STAINLESS STEEL

United States Steel Corp., 525 Wm. Penn Pl., Pittsburgh, Pa.

63. STEAM CLEANING–Equipment, Materials

Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Sellers Injector Corp., 1636 Hamilton St., Philadelphia 30, Pa.

64. STOKERS

Erie City Iron Works, Erie, Pa.

65. TANKS–Septic

Koven & Brother, Inc., L. O., 154 Ogden Ave., Jersey City 7, N. J.

66. THERMOSTATS–Industrial

Fenwal, Inc., 217 Pleasant St., Ashland, Mass.

67. TRACTORS–Industrial

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Clark Tructractor Div. of Clark Equipment Co., Battle Creek 66, Mich.
Material Handling Equip. Co., 141 E. 44th St., New York, N. Y.
The Mercury Manufacturing Co., 4044 S. Halsted St., Chicago 9, Ill.

68. TRAILERS–Platform

The Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
Mercury Manufacturing Co., 4044 S. Halsted St., Chicago 9, Ill.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

69. TRAPS–Electric for Insects

Detjen Corp., Electric Screen Div., 303 W. 42nd St., New York 18, N. Y.
Insect Electrocutor Co., Station V, Box 86, Cincinnati 10, Ohio

70. TRAPS–Steam

Acker Organization, Inc., W. M., 3187 Fulton St., Cleveland 9, Ohio
Armstrong Machine Works, 856 Maple St., Three Rivers, Mich.

71. TRUCKS–Drum and Barrel

Clark Tructractor Div. of Clark Equipment Company, Battle Creek, Mich
The Fairbanks Co., 393 Lafayette St New York 3, N. Y.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

72. TRUCKS–Hand

The Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
Ironbound Box & Lumber Co., 42 Hoffman Place, Hillside, N. J.
The Mercury Manufacturing Co., 4044 S. Halsted St., Chicago 9, Ill.
Rapids-Standard Co., Inc., 510 Peoples Natl. Bank Bldg., Grand Rapids 2, Mich.
West Bend Equipment Corp., 50 Water St., West Bend, Wis.

73. TURBINES–Steam

Clayton Mfg. Co., Box 550, El Monte, Calif.

74. UNIFORMS–Industrial

Elin Manufacturing Co., 102 E. 5th St., Rochester, Ind.

75. WATERPROOFING COMPOUNDS

Tufcrete Company, Inc., 502 E. Locust St., Des Moines, Iowa

76. WATER SOFTENERS

Cochrane Corporation 17th St., below Allegheny Ave., Philadelphia 32, Pa.
Elgin Softener Corporation, 124 N. Grove Ave., Elgin, Illinois
Zero Water Softener Mfg. Company, 4985 Elston Ave., Chicago 30, Illinois

77. WATER SYSTEMS

Kromer Co., O. W., 1120 Emerson Ave., N., Minneapolis 11, Minn.

SECTION G

quality control equipment and laboratory supplies

1. ACETIC ACID

Publicker Industries, Inc., 1429 Walnut St., Philadelphia 2, Pa.

2. ACIDS

Du Pont de Nemours & Co., E.I., Wilmington 98, Del.

3. ALCOHOL

Publicker Industries, Inc., 1429 Walnut St., Philadelphia 2, Pa.
U. S. Industrial Chemicals, Inc., Lincoln Bldg., New York 17, N. Y.

4. ALCOHOL INSOLUBLE SOLIDS EQUIPMENT

Quality Foods Testing and Equipment Co., Worthington, Ohio

5. BIOLOGICAL OXYGEN DEMAND

Quality Foods Testing and Equipment Co., Worthington, Ohio

RIGHT-DOWN-THE-LINE Standard-Knapp installation for can line, including inclined booster, 4-lane divider, can packer, case gluer and sealer.

FOOD PROCESSORS Right Down The Line... STANDARDIZE on STANDARD-KNAPP Equipment

Higher productivity is your goal and that is the end result achieved with Standard-Knapp automatic packaging equipment. You do not buy an S-K machine — you actually buy increased income.

By standardizing on Standard-Knapp equipment, you buy this additional income right down the line — you get more containers processed in less time, at less cost, with less trouble, in less space. And these savings are made where you need them most — in your packaging operations, the most costly phase of your production line manpower expense.

For can lines, Standard-Knapp provides Unloaders, Convergers, Dumpers and Unscramblers, Labelers, Boosters, Packers, Palletizers, De-palletizers, Case Gluers and Sealers, Case Printers, Markers and Stampers.

For glass lines, Standard-Knapp installs Unloaders, Convergers, Unscramblers, Rinsers, Labelers, Packers, Case Gluers and Sealers, Case Printers, Markers and Stampers.

STANDARD-KNAPP KNOW-HOW ADDED PLUS

Our engineering knowledge covers all phases of your packaging operations. We can help you in planning machine layout and integration. Our localized engineering, sales and service offices mean quick assistance on routine and emergency problems. Our continued development work keeps us in step with industry needs as they dictate higher speeds, more economy and improved quality control.

BENEFITS OF STANDARDIZATION AT A GLANCE

- **Higher Productivity** is assured with down-the-line use of Standard-Knapp equipment. Your line operates as a high speed unit, uniformly built to keep you moving at rated capacity.
- **Simplified Maintenance** is a basic feature of every S-K machine. This advantage is coupled with sturdiness of design, easy parts replacement, and precision construction. Maintenance schedules are simpler to follow. Downtime is reduced.
- **Greater Flexibility** is another benefit as every S-K machine is designed for quick changeover to the different package sizes within its capacity. And this flexibility applies right down the line when your line is Standard-Knapp.

FOR THE COMPLETE S-K STORY

write for catalogs describing machines for your industry to Dept. K, Standard-Knapp, Division of Emhart Mfg. Co., Portland, Conn.

Only the best is good enough

STANDARD-KNAPP

DIVISION OF EMHART MFG. CO.

PORTLAND, CONNECTICUT

SALES, ENGINEERING, SERVICE OFFICES

ATLANTA, BOSTON, CHICAGO, CLEVELAND, HOUSTON, LOS ANGELES, NEW YORK CITY, SAN FRANCISCO, SEATTLE, ST. LOUIS

6. CENTER TEMPERATURE MEASURING DEVICES

Food Machinery and Chemical Corp., Hoopeston, Ill.
Taylor Instrument Co., 95 Ames St., Rochester 1, N. Y.

7. CHLORINE CONTROL EQUIPMENT

La Motte Chemical Products Co., Towson, Baltimore 4, Md.

8. COLOR INSTRUMENTS AND COLORIMETERS

American Optical Co., Instrument Division, Eggert Road, Buffalo 15, N. Y.
Bausch & Lomb Optical Co., 605 St. Paul St., Rochester 2, N. Y.
Gardner Laboratories, Inc., Bethesda 14, Md.
Macbeth Corp., P.O. Box 950, Newburgh, N. Y.
Magnuson Engineers, 509 Emory St., San Jose 10, Calif.

9. CONSISTENCY INSTRUMENTS

Food Machinery and Chemical Corp., Hoopeston, Ill.
Redman Scientific Co., 585 Howard St., San Francisco, Calif.

10. DAYLIGHT LAMPS AND GRADING LIGHTS

Macbeth Corp., P.O. Box 950, Newburgh, N. Y.

11. DISTILLING APPARATUS

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio

12. ENZYME TESTING EQUIPMENT

Quality Foods Testing and Equipment Co., Worthington, Ohio

13. FIBER EQUIPMENT

Quality Foods Testing and Equipment Co., Worthington, Ohio

14. FILTER APPARATUS

Commercial Filters Corp., 18 W. Third St., Boston 27, Mass.
Niagara Filter Corp., 3113 Main St., Buffalo 14, N. Y.

15. GLASSWARE

Owens-Illinois Glass Co., Toledo, 1, Ohio

16. GRADING SCALES

Detecto Scales, Inc., 540 Park Ave., Brooklyn 5, N. Y.
Miller-Bros. Co., 10th St. N.W., Washington, D.C.

17. GRADING SCREENS

Newark Wire Cloth Co., 351 Verona Ave., Newark 4, N. J.

18. GRADING TRAYS

Vollrath & Co., Sheboygan, Wis.

19. HEAD SPACE GAUGES

Quality Foods Testing and Equipment Co., Worthington, Ohio

20. HYDROMETERS

Quality Foods Testing and Equipment Co., Worthington, Ohio

21. INCUBATORS—Bacteriological

Lyon Rural Electric Co., 2075 Moore St., San Diego 12, Calif.

22. INDICATOR SOLUTIONS

LaMotte Chemical Products Co., Towson, Baltimore 4, Md.

23. INSECT FRAGMENT EQUIPMENT

Quality Foods Testing and Equipment Co., Worthington, Ohio

24. INSPECTION TABLES

Quality Foods Testing and Equipment Co., Worthington, Ohio

25. LITMUS PAPER

Micro Essential Laboratory, 3005 Ave. K, Brooklyn 10, N. Y.

26. METERS—pH (Concentration, Hydrogen Ion)

LaMotte Chemical Products Co., Towson, Baltimore 4, Md.

27. MICROSCOPES

American Optical Co., Instrument Div., Box A, Buffalo 15, N. Y.
Bausch & Lomb Optical Co., 605 St. Paul St., Rochester 2, N. Y.

28. MIXERS AND MILLS—Laboratory

Green Mfg. Co., 4535 Armitage Ave., Chicago 39, Ill.

29. MOLD COUNT EQUIPMENT

Bausch & Lomb Optical Co., 605 St. Paul St., Rochester 2, N. Y.

30. MOISTURE INSTRUMENTS

Moisture Register Co., 1510 W. Chestnut St., Alhambra, Calif.
Seedburo Equipment Co., 618 W. Jackson Blvd., Chicago, Ill.

31. OSMOMETERS

Odor Instruments, Inc., 220 E. 42nd St., New York 17, N. Y.

32. PEEL OIL EQUIPMENT

Quality Foods Testing and Equipment Co., Worthington, Ohio

33. PERICARP CONTENT EQUIPMENT

Quality Foods Testing and Equipment Co., Worthington, Ohio

34. REFRACTOMETERS

American Optical Co., Instrument Div., Box A, Buffalo 15, N. Y.
Bausch & Lomb Optical Co., 605 St. Paul St., Rochester 2, N. Y.

35. SIZING GAUGES

Quality Foods Testing and Equipment Co., Worthington, Ohio

36. SPECIFIC GRAVITY EQUIPMENT

Quality Foods Testing and Equipment Co., Worthington, Ohio

37. STILLS—Water

American Copper & Brass Works, Inc., 616F E. Front St., Cincinnati 2, Ohio

38. TEXTURE INSTRUMENTS

D. Ballauf Manufacturing Co., Washington, D.C.
William F. Christel Co., Valders, Wis.
Food Machinery & Chemical Corp., Hoopeston, Ill.
Quality Foods Testing & Equipment Co., Worthington, Ohio

39. THERMOMETERS

Owens-Illinois Glass Co., Toledo 1, Ohio
Taylor Instrument Co., 95 Ames St., Rochester 1, N. Y.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

40. THERMOSTATS

Fenwal, Inc., 217 Pleasant St., Ashland, Mass.

41. TIMERS

Tork Clock Co., 1 Grove St., Mount Vernon, N. Y.

42. UNIFORMS—Acid Resistant

Elin Manufacturing Co., 102 E. 5th St., Rochester, Ind.

43. VACUUM GAUGES

Food Machinery & Chemical Corp., Hoopeston, Ill.

44. VISCOSITY INSTRUMENTS

Brookfield Engineering Laboratories, Inc., Stoughton, Mass.
Fisher Scientific Co., Pittsburgh, Pa.
Gardner Laboratories, Inc., Bethesda 14, Md.
Jacobs Engineering Co., Los Angeles, Calif.
Quality Foods Testing and Equipment Co., Worthington, Ohio

45. ZEOLITES

Elgin Softener Corp., 134 N. Grove Ave., Elgin, Ill.

SECTION H

special services

1. FINANCING

C.I.T. Corporation, 1 Park Ave., New York, N. Y.

2. INSECT CONTROL CONSULTANTS

Detjen Corp., Elec. Fly Screen Div., 303 W. 42nd St., New York 18, N. Y.

3. INSURANCE CONSULTANTS

Lansing B. Warner., Inc., 4210 Peterson Ave., Chicago 30, Ill.
Manufacturers & Merchants Indemnity Co., 35 E. Seventh St., Cincinnati, O.
Universal Underwriters, R. A. Long Bldg., Kansas City 6, Mo.

4. LABORATORIES—Consulting

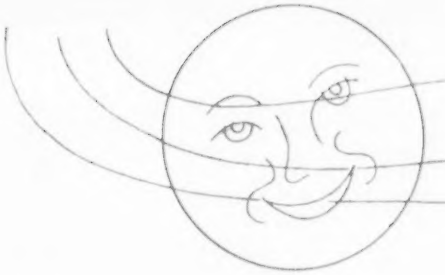
Arthur D. Little, Inc., 30 Memorial Drive, Cambridge, Mass.
Food & Container Research Laboratory (C. Olin Ball), P. O. Box 802, New Brunswick, N. J.
Food Research Labs, Inc., 4814 33rd St., Long Island City, N. Y.
Foster D. Snell, Inc., 29 W. 15th St., New York 11, N. Y.
Hallenbeck Inspection & Testing Laboratory, G. S., 56-62 Pearl St., Buffalo 2, N. Y.
Odor Instruments Inc., 220 E. 42nd St., New York 17, N. Y.

5. PACKAGING CONSULTANTS

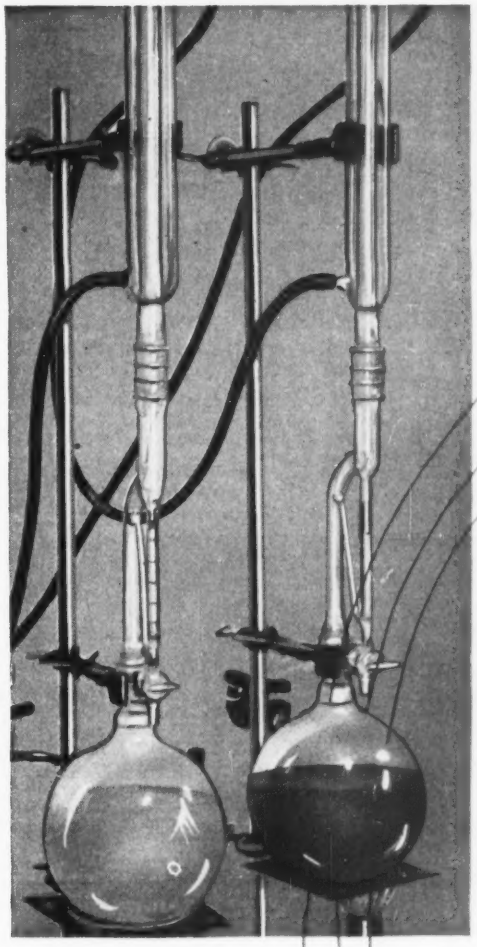
Aluminum Company of America, Alcoa Bldg., Pittsburgh, Pa.
Rossotti Lithograph Corp., 8511 Tonnelle Ave., North Bergen, N. J.
Snell, Inc., Foster D., 29 W. 15th St., New York 11, N. Y.

6. PRODUCTION CONSULTANTS

Owens-Illinois Glass Co., Toledo 1, Ohio



The Taste of Sunshine—All the Time



PEPPEROYAL AND SOLUBLIZED SEASONINGS

In this age of scientific miracles, Griffith's staff of chemists enable you to change a good product into a delicacy—simply by changing to PEPPEROYAL or SOLUBLIZED SEASONINGS.

Griffith's Solublized Seasoning formulas set a new high standard in flavor potency, purity and uniformity. By a special extraction process,* Griffith controls flavor quality. Blends spice extractives scientifically—with predictable, dependable results for spice users!

Change from the old to the new flavor quality—change to PEPPEROYAL or SOLUBLIZED SEASONINGS.

Write us for details.

*Patent Applied For

The
GRIFFITH LABORATORIES, Inc.

In Canada—The Griffith Laboratories, Ltd.

CHICAGO 9, 1415 W. 37th St. • NEWARK 5, 37 Empire St.

LOS ANGELES 58, 4900 Gifford Ave. • TORONTO 2, 115 George St.

Pack Statistics

Pack statistics for selected canned vegetables[1]

Sweet corn

Pack of recent years by states—basis 24/2's

State	1948 Basis 24/2's cases	1949 Basis 24/2's cases	1950 Basis 24/2's cases	1951 Basis 24/2's cases	1952 Basis 24/2's cases
Me., Vt. and N. H.	657,322	1,148,067	526,390	979,619	746,245
New York	1,141,071	1,500,636	1,143,018	1,010,212	1,150,255
Md. and Del.	2,502,572	1,965,464	1,524,650	1,862,003	1,869,510
Pennsylvania	603,892	632,265	521,910	537,087	466,729
Other States	5,400	.....	.....	29,890	18,272
Ohio	1,476,924	970,859	665,948	774,520	947,108
Indiana	1,753,294	1,358,899	593,735	1,127,488	1,242,255
Illinois	4,464,656	4,992,780	3,412,843	4,526,558	5,356,093
Wisconsin	6,004,324	7,379,484	2,647,979	4,652,684	7,617,886
Minnesota	6,187,024	4,926,777	3,553,201	4,691,321	6,513,800
Iowa and Nebraska	3,207,637	1,786,161	872,634	1,391,883	2,482,799
Other States	328,837	276,748	224,022	407,100	325,005
Western States	3,149,598	2,856,897	2,554,309	3,585,484	3,592,654
Total	31,482,551	29,795,037	18,240,639	25,575,849	32,328,611

1952 regional pack by variety and style

	East Actual cases	Midwest Actual cases	West Actual cases	Total Actual cases
Country Gentleman				
Cream style	7,222	2,477,957	.....	2,485,179
Whole kernel	253,128	189,083	.....	442,211
Other white corn				
Cream style	40,972	676,896	.....	717,868
Whole kernel	241,527	42,660	.....	284,187
Golden				
Cream style	2,511,785	11,760,118	2,416,660	16,688,563
Whole kernel	1,726,366	14,109,921	1,758,037	17,594,324
Total	4,781,000	29,256,635	4,174,697	38,212,332

Pack by size of container

Size	1948 Actual cases	1949 Actual cases	1950 Actual cases	1951 Actual cases	1952 Actual cases
No. 2	14,915,118	8,679,970	1,382,304	1,332,017	428,105
8Z Short and Tall	391,003	1,505,978	1,729,310	2,440,410	3,045,727
No. 1 (Picnic)	1,395,253	1,662,410	651,025	540,079	357,714
12Z Vacuum	7,057,319	6,322,120	4,357,179	5,458,714	6,954,003
No. 303 and 300	8,744,920	12,438,411	12,554,638	18,509,984	24,506,652
No. 10	1,822,702	2,445,571	948,089	1,835,171	2,849,851
Misc. tin and glass	83,725	83,858	22,698	72,165	70,280
Total	34,410,040	33,138,318	21,645,243	30,188,540	38,212,332

Total United States Pack

Year	Basis 24/2's cases
1909	5,787,000
1910	10,063,000
1911	14,301,000
1912	13,109,000
1913	7,283,000
1914	9,789,000
1915	10,124,000
1916	9,130,000
1917	10,802,952
1918	11,721,860
1919	13,550,000
1920	15,040,000
1921	8,843,000
1922	11,419,000
1923	14,106,000
1924	12,131,000
1925	24,320,000
1926	19,069,000
1927	10,346,680
1928	14,497,130
1929	17,486,744
1930	15,692,172
1931	19,414,667
1932	9,357,642
1933	10,192,730
1934	11,267,897
1935	21,471,417
1936	14,621,189
1937	23,541,224
1938	20,469,518
1939	14,566,914
1940	15,523,579
1941	26,109,140
1942	32,118,372
1943	28,755,036
1944	25,089,107
1945	28,236,900
1946	30,950,687
1947	26,089,236

Green peas

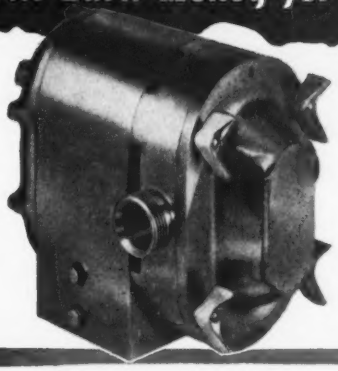
Pack by size of container

Size	1948 Actual cases	1949 Actual cases	1950 Actual cases	1951 Actual cases	1952 Actual cases
No. 2	7,804,329	5,009,835	2,614,568	1,440,041	346,154
8Z	1,219,354	1,751,498	2,986,991	3,543,741	3,697,133
No. 1 (Picnic)	2,471,251	1,927,282	1,340,585	1,026,942	783,589
No. 303	10,346,617	12,951,008	22,962,599	27,180,949	20,595,564
No. 10	2,481,517	3,087,799	2,686,019	4,474,955	3,984,487
Misc. tin and glass	122,986	217,452	134,774	170,759	39,350
Total	24,446,054	24,944,874	32,725,536	37,837,387	29,446,277

1. Source: National Canners Association

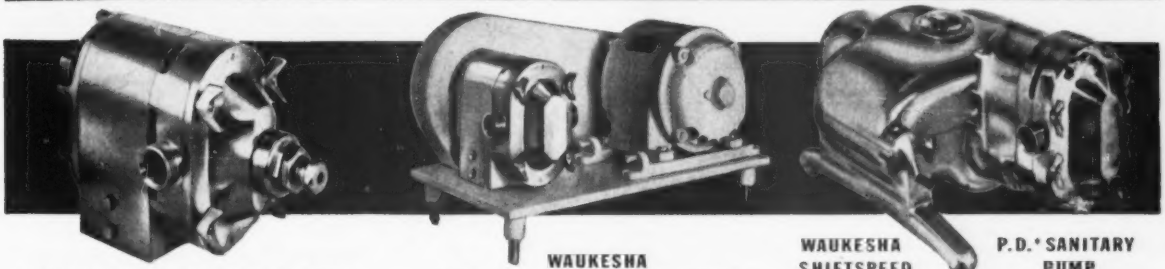
These *Waukesha* P.D.* Sanitary Pumps

Will Earn Money for YOU . . . In Savings and Product Protection



Whether your product is light liquid, creamy, semi-solid or even chunky, you can handle it more efficiently and more economically with a WAUKESHA P.D. Pump. For with Waukesha's Positive Displacement principle of action, your product comes *out* of the pump exactly as it goes *into* the pump. There's no possibility of churning, aeration, agitation, crushing. That's why it's standard in leading food, beverage, dairy, chemical and textile plants the country over.

The Waukesha P.D.* Pump features: One-Piece O-Ring Sanitary Seal — Compact streamlined construction of Corrosion-Resistant "Waukesha Metal" or Stainless Steel on all product-contact parts — Heavy Duty Ball Bearings — Faster cleaning and sanitation — and other advantages.



WAUKESHA VENTED COVER PUMP

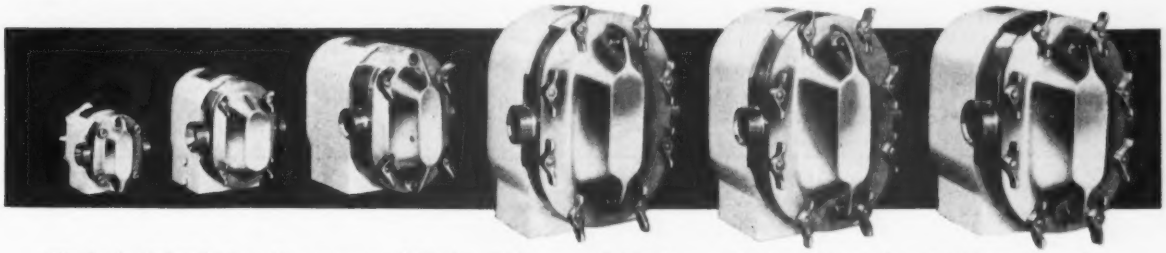
Offers built-in protection against dangerous line back pressures. Stops product flow if pressure exceeds safe pre-set limits. Avoids by-passes, extra pipes, fittings, tubing. Available on all Waukesha Models.

WAUKESHA V-BELT P.D.* SANITARY PUMP

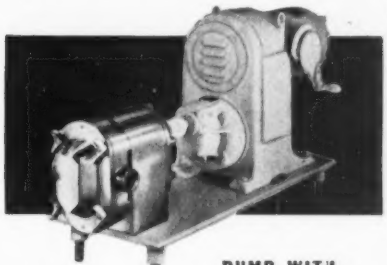
Compact design with new steel plate base and adjustable ball feet for floor clearance and utmost sanitation. Capacities from 1,000 to 60,000 pounds per hour.

WAUKESHA SHIFTSPEED P.D.* SANITARY PUMP

Permits capacity changes while pump is in operation. Just turn the handwheel, watch the dial on top of housing. High speed stop and external sealing device prevents over-shooting flow capacity. Streamlined, sanitary housing.



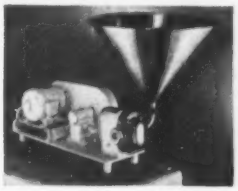
Waukesha P.D.* Sanitary Pumps are available in a wide range of sizes, in capacities from 20 pounds to 60,000 pounds per hour — against head pressures up to and including 100 pounds — for a wide variety of applications.



WAUKESHA PUMP WITH U. S. VARIDRIVE

Variable Speed Model available in variety of Motor H.P. and speed adjustment. Steel Plate Base with Adjustable Ball Feet.

WAUKESHA ICE CREAM FLAVOR PUMPING UNIT



Will not crystallize flavoring nor disturb ice cream overrun. Available with 2½ gallon or 10 gallon Stainless Steel Hopper, ¼ H.P. Motor. For Batch type, or continuous freezers. Capacity — 6 to 45 gallons per hour.

*P.D. — Positive Displacement — Smooth Flow — Slow Speed

Write or wire — for advice and details on the Waukesha P.D. Sanitary Pump to fit your needs exactly.

WAUKESHA FOUNDRY COMPANY

1356 Lincoln AVE., WAUKESHA, WISCONSIN

Waukesha 100% SANITARY PUMPS

Dependable Product of a Responsible Manufacturer

Green peas—

Pack of recent years by states—basis 24/2's

State	1948 Basis 24/2's cases	1949 Basis 24/2's cases	1950 Basis 24/2's cases	1951 Basis 24/2's cases	1952 Basis 24/2's cases
Maine	86,659	158,465	145,944	182,938	750,549
New York	1,502,594	634,525	923,646	1,086,596	
Maryland	904,112	900,505	1,005,031	1,189,365	837,044
Del. and N. J.	96,156	36,672	32,611	73,892	75,063
Pennsylvania	739,244	560,308	830,935	940,628	587,013
Ohio	157,452	155,971	162,840	210,267	166,673
Indiana	219,732	274,177	233,535	247,128	214,257
Illinois	1,967,170	1,235,392	2,314,568	2,543,545	2,115,726
Michigan	421,134	225,418	320,901	294,122	142,367
Wisconsin	7,215,806	9,477,059	11,427,486	13,965,178	11,003,915
Minnesota	2,252,285	2,559,051	2,707,214	3,685,588	2,862,315
Montana and Wyo.	178,743	(a)	(a)	290,226	243,716
Idaho and Utah	1,170,871	1,753,442	2,005,132	1,662,037	993,485
Wash. and Oregon	5,669,540	4,331,563	5,800,006	6,413,953	5,622,701
California	130,390	216,836	232,693	297,489	(a)
Other States	643,854	948,679	938,629	833,217	894,606
Total	23,355,742	23,468,063	29,081,171	33,916,169	26,509,430

(a) Included in "Other States."

Pack by variety

State	1951 Alaskas Actual cases	1951 Sweets Actual cases	1952 Alaskas Actual cases	1952 Sweets Actual cases
Maine	.....	187,187	.....	786,432
New York	33,748	1,149,449	26,533	
Maryland	598,068	683,229	492,254	394,967
Delaware and New Jersey	77,748	(a)	66,247	(a)
Pennsylvania	245,803	740,195	198,098	415,562
Ohio	182,505	(a)	152,811	(a)
Indiana	280,639	(a)	248,621	(a)
Illinois	518,093	2,440,468	551,733	1,884,187
Michigan	(a)	275,264	(a)	132,693
Wisconsin	5,287,249	10,164,162	4,177,340	7,915,327
Minnesota	1,427,715	2,919,073	1,249,245	2,140,335
Montana and Wyo.	.....	308,433	.....	262,471
Idaho and Utah	(a)	1,870,284	(a)	1,095,868
Washington and Oregon	489,196	6,613,902	381,567	5,837,051
California	.....	272,250	.....	(a)
Other States	365,620	707,107	263,261	773,674
Total	9,506,384	28,331,003	7,807,710	21,638,567

(a) Included in "Other States."

Total United States Pack

Year	Basis 24/2's cases
1899	2,543,722
1904	4,694,492
1908	5,577,000
1909	5,028,000
1910	4,347,000
1911	4,532,000
1912	7,307,000
1913	8,770,000
1914	8,847,000
1915	9,272,000
1916	6,686,000
1917	9,829,053
1918	11,063,156
1919	8,685,000
1920	12,317,000
1921	8,207,000
1922	13,042,000
1923	13,948,000
1924	19,315,000
1925	17,816,000
1926	17,709,000
1927	12,936,017
1928	17,943,436
1929	18,530,000
1930	22,035,212
1931	13,285,826
1932	10,366,968
1933	12,892,903
1934	15,741,569
1935	24,698,633
1936	16,552,816
1937	23,467,479
1938	25,458,647
1939	16,074,109
1940	25,195,640
1941	28,723,546
1942	35,255,945
1943	35,051,559
1944	31,524,361
1945	39,649,159
1946	40,932,745
1947	33,118,916

Tomatoes

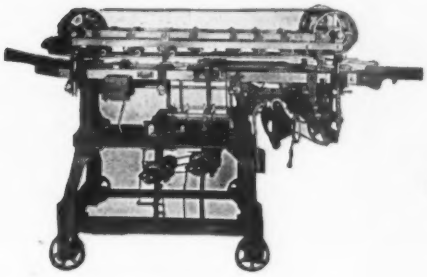
Pack of recent years by states—basis 24/2's

State	1948 Basis 24/2's cases	1949 Basis 24/2's cases	1950 Basis 24/2's cases	1951 Basis 24/2's cases	1952 Basis 24/2's cases
New York	854,379	613,048	436,460	589,944	624,380
Maryland	5,335,220	5,927,150	6,863,022	8,050,049	5,831,143
Delaware	266,919	167,722	264,793	146,464	107,132
New Jersey	165,002	255,626	362,520	362,517	225,698
Pennsylvania	755,839	653,745	679,935	838,321	702,784
Va. and W. Va.	1,255,729	873,808	1,086,292	1,651,256	769,719
Ohio	1,734,383	1,149,555	971,199	1,873,638	1,353,153
Indiana	3,364,066	2,118,338	1,642,318	3,315,917	2,260,826
Tenn. and Ky.	343,131	226,939	218,371	292,632	178,388
Ark., Mo. and Okla.	977,068	1,060,395	592,590	991,805	824,981
Colorado	327,878	192,827	150,560	165,395	413,874
Utah	749,387	820,446	611,711	809,069	667,905
California	6,155,606	5,314,927	4,717,038	10,067,326	11,781,151
Other States	2,108,397	2,162,313	2,510,802	2,615,734	2,239,539
Total	24,393,004	21,536,839	21,107,611	31,770,067	27,980,673

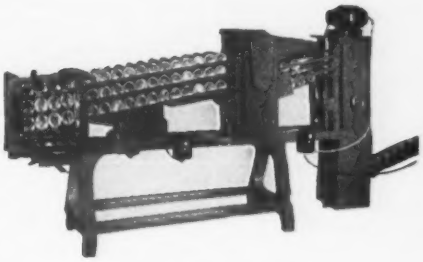
(Continued on page 86)

FOR HIGHER PRODUCTION . . . BURT BEATS FLEETING TIME!

Burt "beats fleeting time" by boosting production, by reducing stop-losses through faster, easier to operate, more efficient LABELERS and CASE PACKERS.



Boost your production with BURT Non-Stop Labelers. Uninterrupted service with the exclusive Dual Label Feed and no disarrangement of labels!

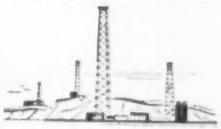


BURT High Speed Case Packers will pep up your production too . . . Pack 2 layers with each stroke. Automatic case dumping and balanced beam controls. Simplest can handling method available.

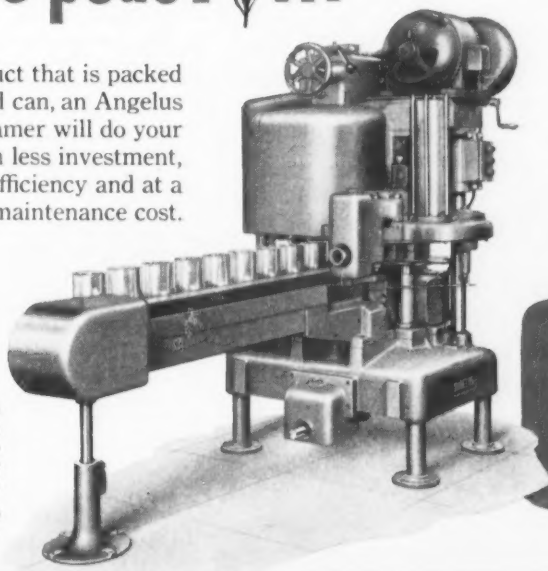
BURT
LABELERS
PACKERS

BURT MACHINE COMPANY 401 E. OLIVER ST. BALTIMORE 2, MARYLAND

from petroleum to peas. . . .



For any product that is packed in a round can, an Angelus Automatic Seamer will do your job with less investment, maximum efficiency and at a lower maintenance cost.



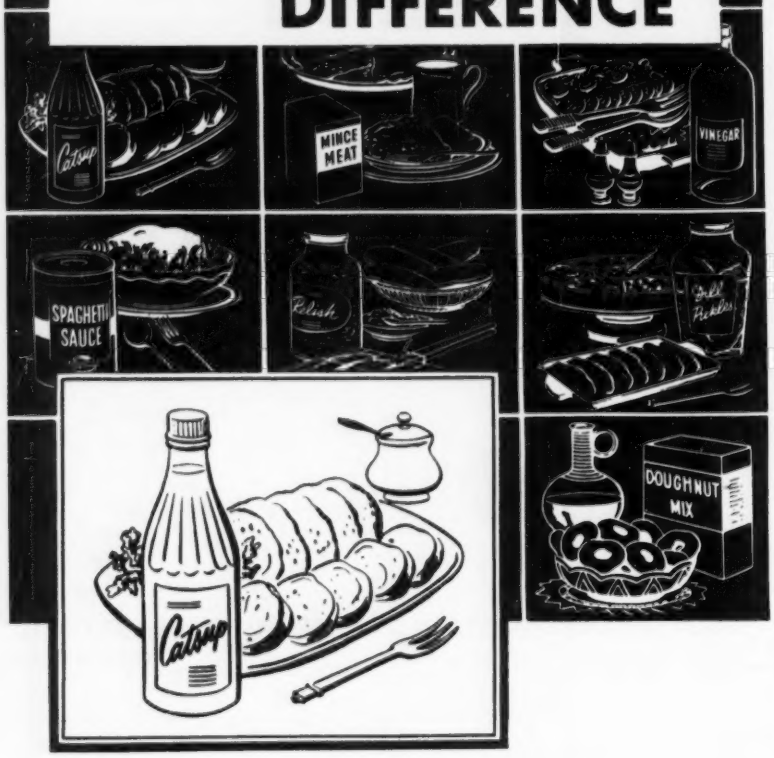
Model 60-L
High-speed, straight line feed seamer for spill-free closing of round cans 2" to 4¼" in diameter—up to 400 cans per minute

Investigate
the advantages of low cost production, low cost investment, and low cost maintenance with Angelus Automatic Seamers.

Write today
for complete details on models and an Angelus Engineered Application Recommendation.

ANGELUS
Sanitary Can Machine Company
Cable address "Angelmacco" Western Union Code
4900 Pacific Blvd. • Los Angeles 58, Calif.

CATSUP WITH A DIFFERENCE



...and that DIFFERENCE is

SPICEOLATE FLAVORS!®

Catsup with a *new, tangy goodness*... catsup with an unmatched flavor that is *uniformly spread throughout*... catsup with the processing advantages of a flavor that is *completely water-soluble, absolutely pure,* and possesses a *low vapor pressure* and *increased shelf-life.* This is truly "Catsup with a Difference"! Ten different SPICEOLATE CATSUP flavor combinations make possible a variety of individual formulas, and the D&O Flavor Technicians, at all times, are at the service of the manufacturer with a special flavoring problem.

* *Write for your copy of the Spiceolate Brochure.*

OUR 154TH YEAR OF SERVICE

D&O ESTABLISHED 1798

DODGE & OLCOTT, INC.

180 Varick Street • New York 14, N. Y.

Sales Offices in Principal Cities

ESSENTIAL OILS • AROMATIC CHEMICALS • PERFUME BASES • FLAVOR BASES • VANILLA

U. S. Food & Drug Administration district offices and resident inspection stations

DISTRICT OFFICES:

ATLANTA DISTRICT, Room 416, Federal Annex; Main 3517, ext. 172.

BALTIMORE DISTRICT, Room 800, United States Appraiser's Stores, Gay and Lombard Sts.; Plaza 8460, ext. 507.

BOSTON DISTRICT, Room 805, United States Appraiser's Stores, 408 Atlantic Avenue; Hancock 6-0135, ext. 145.

BUFFALO DISTRICT, Room 415, Federal Bldg., South Division and Ellicott Sts.; Madison 6332.

CHICAGO DISTRICT, Room 1222, New Post Office Bldg., Van Buren and Canal Sts.; Wabash 2-9207, ext. 242.

CINCINNATI DISTRICT, Room 501, Post Office Bldg.; Cherry 5820, ext. 300.

DENVER DISTRICT, Room 531, United States Customhouse; Keystone 4151, ext. 588.

KANSAS CITY DISTRICT, 323 United States Courthouse, 811 Grand Avenue; Baltimore 7,000, ext. 1246.

LOS ANGELES DISTRICT, Room 514, 1401 S. Hope St.; Prospect 4711, ext. 288.

MINNEAPOLIS DISTRICT, Room 201, Federal Office Bldg., Washington and Third Avenues, South; Main 3244, ext. 60.

NEW ORLEANS DISTRICT, Room 223, United States Customhouse, 423 Canal St.; Magnolia 4451, ext. 287.

NEW YORK DISTRICT, Room 1200, United States Appraiser's Stores, 201 Varick St.; Watkins 4-9353.

PHILADELPHIA DISTRICT, Room 1204, New Customhouse, Second and Chestnut Sts.; Market 7-6000, ext. 44.

ST. LOUIS DISTRICT, Room 1007, New Federal Bldg., 1114 Market St.; Main 8100, ext. 535.

SAN FRANCISCO DISTRICT, Room 512, Federal Office Bldg., Fulton and Leavenworth Sts.; Klondyke 2-2350, ext. 6980.

SEATTLE DISTRICT, Room 501, Federal Office Bldg.; Mutual 3300, ext. 421.

RESIDENT INSPECTION STATIONS:

ALBANY, N. Y., 342 New Postoffice Bldg.; 6-7611, ext. 58.

BIRMINGHAM, ALA., Postoffice Bldg.; 53-3421, ext. 278.

CHARLESTON, W. VA., 323 Federal Bldg.; Capitol 23-613.

Charlotte, N. C., 233 Postoffice Bldg.; 8407.

Cleveland, Ohio, Two New Postoffice Bldg.; Cherry 1-7300, ext. 167.

Columbus, Ohio, 302 Old Postoffice Bldg.; Main 6411, ext. 450.

Dallas, Texas, 111 Norman Bldg.; Sterling 5611, ext. 2196.

Des Moines, Iowa, 218 Old Federal Bldg.; 3-2171, ext. 77.

Detroit, Mich., 908 Federal Bldg.; Woodward 3-2453.

Fresno, Calif., 10-A Postoffice Bldg., 2-8458.

Harrisburg, Pa., Four Studebaker Bldg.; 4-5701.

Hartford, Conn., 322 Postoffice Bldg.; 7-3281, ext. 259.

Houston, Texas, 1018 Federal Bldg.; Fairfax 4076.

Indianapolis, Ind., 241 State Board of Health Bldg.; Lincoln 8433, ext. 229.

Jacksonville, Fla., 231 Courthouse and Postoffice Bldg.; 4-7111, ext. 128.

Little Rock, Ark., 510 Federal Bldg.; 2-4361, ext. 257.

Long Beach, Calif., Pier A, Berth 5; 702-503.

Memphis, Tenn., 320 U. S. Customhouse; 8-7280.

Miami, Fla., 356 Postoffice and Courthouse Bldg.; 9-6113.

Milwaukee, Wis., 363 Postoffice Bldg.; Broadway 2-8600, ext. 294.

Nashville, Tenn., 502 U. S. Courthouse; 42-9651, ext. 467.

Newark, N. J., B-99 Postoffice Bldg.; Mitchell 2-2020, ext. 243.

Norfolk, Va., 415-B Postoffice Bldg.; 4-7662.

Oklahoma City, Okla., 104 Municipal Bldg.; 77501, ext. 126.

Omaha, Nebr., 413 Federal Bldg.; Jackson 7900, ext. 419.

Peoria, Ill., Postoffice Bldg.; 6-5413.

Phoenix, Ariz., 305 Federal Bldg.; Alpine 4-7510.

Pittsburgh, Pa., 303 Old Postoffice Bldg.; Grant 1-0800, ext. 629.

Portland, Maine, 303 Old Postoffice Bldg.; 4-6631.

Portland, Oregon, 315 U. S. Customhouse; Atwater 6171, ext. 373.

Providence, R. I., 509 Main Postoffice Bldg.; Gaspee 1-6919.

Roanoke, Va., 304 Postoffice Bldg.; 4-1818.

Rochester, N. Y., 56 Federal Bldg.; Main 1508.

Sacramento, Calif., 100 Old Postoffice Bldg.; Hudson 4-0769.

Salt Lake City, Utah, Administration Bldg.; 7-5411.

San Diego, Calif., U. S. Customs and Courthouse Bldg.; Franklin 9-6041, ext. 59.

Chisholm-Ryder

Can supply efficient and labor-saving equipment for every type of canned and frozen food processing. Among the many CRCO items of equipment are outstanding machines to process:

ANIMAL FOOD
APPLES
& Apple Products
ARICOTS
ASPARAGUS
BABY FOODS
BEEF
BEETS
BLACKBERRIES
BLUEBERRIES
CARROTS
CAULIFLOWER
CELERY
CHERRIES
CHICKEN
CITRUS
CLAMS
CORN
CRANBERRIES
DRIED BEANS
GOOSEBERRIES
GRAPEJUICE
JAMS
JELLIES
KALE
LIMA BEANS
LIVER
LOGANBERRIES
MARMALADES
MELON RIND
MUSTARD GREENS
MUSHROOMS
OLIVES
OKRA
ONIONS
PEACHES
PEARS
PEAS
Green, Black-eyed, English and Crowder
PEPPERS
PICKLES
PINEAPPLE
PLUMS
PORK
POTATOES
White and Sweet
PUMPKIN
RASPBERRIES
RELISHES
RHUBARB
RUTABAGAS
SARDINES
SAUERKRAUT
SHRIMP
SOUPS
SPINACH
SQUASH
STRAWBERRIES
STRING BEANS
TOMATOES
and Tomato Products
TUNAFISH
TURNIP GREENS

There are also the CRCO and CRCO-New Way Lines of Labelers, Casers, Feed Tables, Unscramblers, Carton Gluer-Sealers and other modern handling Equipment.

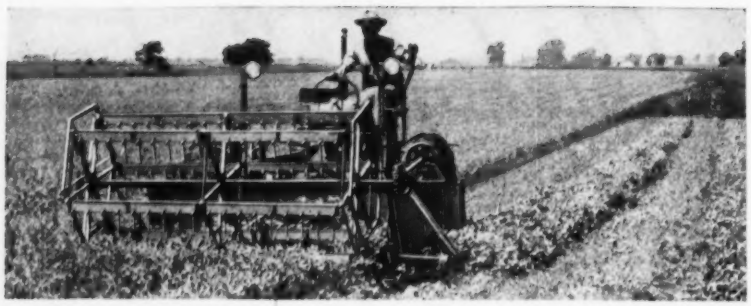
THE BEST OF Everything

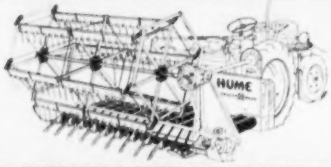
CHISHOLM-RYDER CO. INC.
Niagara Falls, New York
FOR · THE · FOOD · PROCESSOR

Chisholm-Ryder Company of Pennsylvania
AN AFFILIATE

Ayers Machine Company
A SUBSIDIARY

(SPL)





HUME TRACTOR-ROWER Light weight Hume Tractor-Rower cuts a wide swath at high speed and windrows the crop neatly, gently, without shattering, twisting, roping.

HUME LOADER Light weight, high speed Hume Loader picks up all the crop — loads vines in loose, fluffy, clean condition — easy to pitch at the viner.

SPOKANE, WASH., 321 Federal Bldg.; Main 2403.

SPRINGFIELD, MO., 225 Postoffice Bldg.; 2-2305.

TAMPA, FLA., U. S. Appraiser's Stores; 25-8622.

WASHINGTON, D. C., 5803 South Agricultural Bldg. (USDA); Republic 7-4142; ext. 5759.

OFFICES OF THE PROCESSED PRODUCTS STANDARDIZATION AND INSPECTION DIVISION

(As of 6-29-53)

Official inspection of processed fruits and vegetables and fruit and vegetable products (canned, frozen, dried, dehydrated or pickled, including jams or preserves, honey, maple sirup, and peanut butter) is available in the cities listed below and at all points which can be conveniently reached from these points. Any financially interested party desiring inspection for quality, condition and grade should communicate with the inspection office nearest the point where the product is located. Applications for inspection should be addressed by mail, telegraph or telephone to PROCESSED PRODUCTS INSPECTION, FRUIT AND VEGETABLE BRANCH, P&MA, UNITED STATES DEPARTMENT OF AGRICULTURE, at the cities listed below:

EASTERN DISTRICT

WASHINGTON 25, D. C., Processed Products Standardization & Inspection Div., Fruit & Vegetable Br.; Republic 7-4142, exts. 4693-4694.

ATLANTA 3, GA., Rm. 353, 50-7th St., N.E.; Elgin 3311, ext. 5129.

BALTIMORE 2, MD., 307 Appraisers Stores Bldg.; Plaza 2-8460, ext. 694.

BOSTON 10, MASS., 725 Appraisers Stores Bldg.; Hancock 6-0135, exts. 51, 52.

EASTON, MD., 32 East Dover St., (Mail–P. O. Box 762); Easton 1066.

NEW YORK 14, N. Y., Rm. 854, 641 Washington St.; Watkins 4-1000, exts. 216, 217.

PHILADELPHIA 6, PA., 601 U. S. Customs House, 2d & Chestnut Sts.; Market 7-6000, ext. 35.

PORTLAND 3, MAINE, Rm. 18, U. S. Customs Bldg.; Portland 4-8381.

RICHMOND 19, VA., 1200 East Main St.; 3-9033.

ROCHESTER 14, N. Y., 300 Terminal Bldg.; Locust 7450.

WINTER HAVEN, FLA., Rm. 216, Florida Citrus Bldg.; 3rd St., N.W. (Mail–P. O. Box 860); 29-232 & 29-751.

SAN JUAN, PUERTO RICO, Processed Foods Inspection, P&MA; P. O.

Box 10163, Santurce, P.R.; 2-2120, ext. 31.

CENTRAL DISTRICT

CEDAR RAPIDS, IOWA, 206 Federal Bldg.; 3-2951.

CHICAGO 7, ILL., 1020 U. S. Customs House, 610 South Canal St.; Harrison 7-6910, exts. 251, 252.

COLUMBUS 15, OHIO, 436 Old Federal Bldg.; Main 6411, ext. 432.

DETROIT 9, MICH., Rm. 36, Detroit Union Produce Term., 7201 West Fort St.; Vinewood 1-1926 or Vinewood 1-0466.

FAYETTEVILLE 5, ARK., 320½ West Dickson St. (Mail—P. O. Box 38, University Station); Fayetteville 24021.

HAMMOND, LA., Southeastern College Campus (Mail—P. O. Box 151 Hammond); Hammond 263.

INDIANAPOLIS 25, IND., Rm. 310, Agricultural Bldg., 215 East New York St.; Plaza 7451, ext. 19.

KNOXVILLE 7, TENN., Rm. 202, Food Science Bldg., U. T. Farm; 4-2981, ext. 79.

RIPON, WISCONSIN, U. S. Postoffice Bldg. (Mail—P. O. Box 96); Black 540.

WESLACO, TEXAS, 245 South Texas Blvd. (Mail P. O. Box 102); Weslaco 76.

WESTERN DISTRICT

DENVER 2, COLO., 553 U. S. Custom House; Keystone 4151.

FRESNO 2, CALIF., 3529 E. Tulare St; Fresno 4-5971.

LOS ANGELES 15, CALIF., Rm. 351, Bendix Bldg., 1206 Maple Ave.; Prospect 9323.

PORTLAND 5, OREGON, 312 U. S. Court House; Atwater 6171.

SALEM, OREGON, 530 Glen Creek Drive; Salem 3-3002.

SALT LAKE CITY 1, UTAH, B-45 State Capital Bldg.; 4-2515, ext. 292.

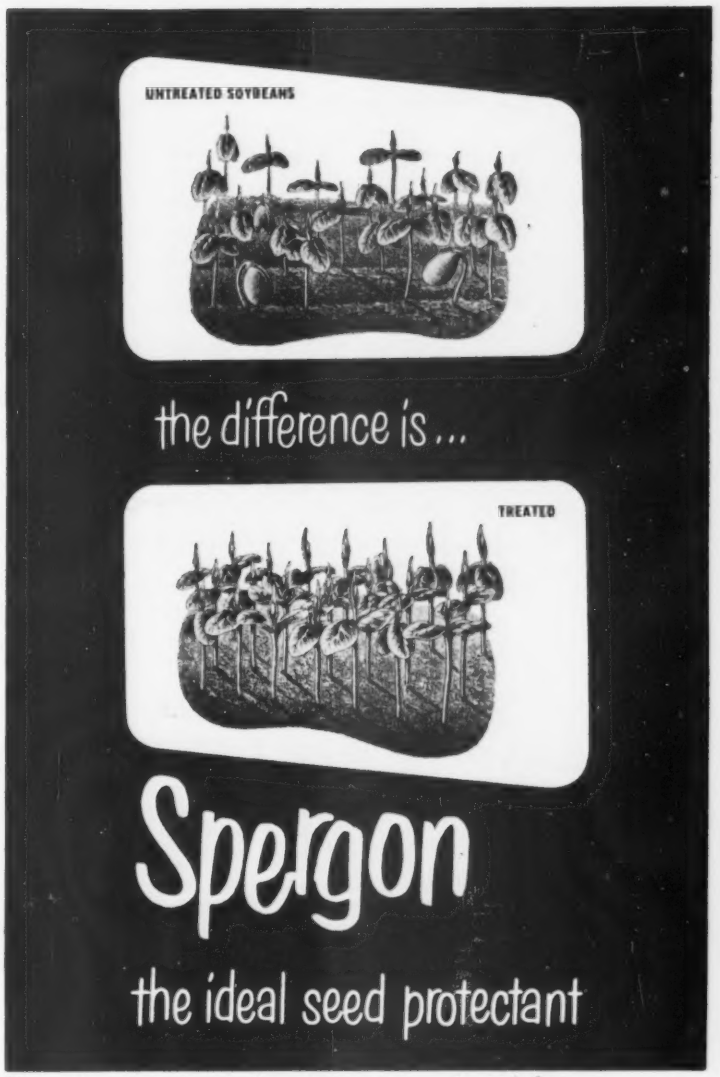
SAN FRANCISCO 3, CALIF., 223 Old Mint Bldg., 5th & Mission Sts.; Klondyke 2-2350.

SAN JOSE 10, CALIF., 670 Stockton Ave.; Cypress 5-7600.

SEATTLE 1, WASH., 1917—1st Ave., Rm. 207, Alaska Trade Bldg.; Seneca 4133.

STOCKTON 5, CALIF., 1281 North Ophir St.; Stockton 7-7269.

YAKIMA, WASH., 212 Liberty Bldg.; Yakima 2-3381.



Read what agricultural authorities report:

FROM MINNESOTA—Spergon has consistently improved soybean germination and stand.

FROM IOWA—7.2 bushel increase per acre of field corn with Spergon.

FROM CALIFORNIA—return investment in Spergon for lima beans is 50-500 times the cost.

Advise local supplier of your needs beforehand to insure availability.

For free "seed protectant" Bulletin #1, write to:

UNITED STATES RUBBER COMPANY

Naugatuck Chemical Division, Naugatuck, Conn.

manufacturers of seed protectants—Spergon, Spergon-DDT, Spergon-SL, Spergon-DDT-SL, Phygon Seed Protectant, Phygon Naugets, Phygon-XL-DDT, Thiram Naugets—fungicides—Spergon Wettable, Phygon-XL—insecticides—Synklor-48-E, Synklor-50-W—fungicide-insecticides—Spergon Gladiolus Dust, Phygon Rose Dust—miticides—Aramite.

(Continued from page 80)

Tomatoes —

Pack of recent years by states—actual cases

State	1948 *Actual cases*	1949 *Actual cases*	1950 *Actual cases*	1951 *Actual cases*	1952 *Actual cases*
New York	762,623	527,320	376,078	513,473	540,429
Maryland	4,914,219	5,523,066	6,371,352	7,582,130	5,669,842
Delaware	220,874	126,852	197,429	110,188	109,400
New Jersey	134,860	210,560	284,125	288,374	178,306
Pennsylvania	692,969	589,377	619,533	771,886	662,855
Va. and W. Va.	1,224,954	852,661	1,059,784	1,568,664	753,762
Ohio	1,554,144	1,032,593	900,482	1,712,675	1,294,453
Indiana	3,013,167	1,871,052	1,478,705	2,995,972	2,064,834
Tenn. and Ky.	322,692	217,694	209,075	275,919	166,214
Ark., Mo. and Okla.	954,932	1,024,950	587,774	986,061	863,477
Colorado	323,853	184,603	150,598	157,949	412,181
Utah	631,325	674,139	507,217	662,529	575,297
California	4,712,962	3,978,132	3,569,916	7,496,030	9,641,573
Other States	2,003,114	2,060,673	2,412,282	2,550,549	2,243,814
Total	21,466,688	18,873,672	18,724,350	27,672,399	25,176,437

Pack by size of container

Size	1948 *Actual cases*	1949 *Actual cases*	1950 *Actual cases*	1951 *Actual cases*	1952 *Actual cases*
No. 2	12,587,425	10,692,173	10,262,199	13,125,598	8,323,132
8Z	.....	39,263	10,444	150,368	173,815
No. 1 (Picnic)	869,132	826,775	948,475	1,035,479	908,033
No. 1 Tall	111,777	65,607	121,993	331,458	237,280
No. 303	204,851	180,950	920,111	2,169,241	6,044,681
No. 2½	3,597,298	3,276,938	3,390,605	5,574,873	4,970,033
No. 10	3,702,538	3,424,780	2,932,942	5,250,151	4,483,655
Misc. tin and glass	393,667	367,186	137,581	35,231	35,808
Total	21,466,688	18,873,672	18,724,350	27,672,399	25,176,437

Total United States Pack

Year	*Basis 24/2's cases*
1899	14,851,818
1904	16,064,720
1908	19,594,653
1909	18,749,688
1910	15,764,145
1911	16,641,543
1912	23,935,554
1913	24,249,642
1914	25,983,954
1915	14,456,583
1916	22,433,394
1917	25,734,858
1918	27,111,209
1919	18,452,090
1920	19,405,176
1921	6,857,019
1922	19,695,366
1923	25,045,104
1924	21,369,933
1925	33,747,390
1926	16,139,685
1927	22,424,931
1928	14,575,359
1929	24,146,029
1930	29,015,243
1931	16,341,154
1932	20,367,000
1933	20,460,903
1934	22,376,349
1935	26,984,642
1936	24,414,268
1937	26,234,829
1938	23,130,892
1939	24,465,480
1940	29,533,005
1941	31,759,140
1942	41,251,782
1943	29,269,188
1944	26,098,841
1945	16,757,750
1946	23,857,110
1947	27,709,319

Pack statistics for selected canned fruits[1]

Apple Sauce

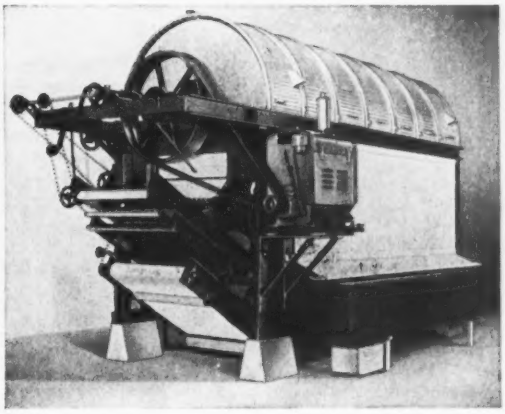
Pack by size of container

Size	1948-49 *Actual cases*	1949-50 *Actual cases*	1950-51 *Actual cases*	1951-52 *Actual cases*	1952-53 *Actual cases*
No. 2	3,248,960	5,106,005	2,972,574	425,762	285,975
8Z	115,874	309,915	779,393	473,335	482,463
No. 303	937,473	2,079,671	6,680,067	7,170,851	6,975,028
No. 2½	8,700	.....	8,000	.....	.....
No. 10	540,963	1,115,780	2,066,117	901,044	1,144,390
Misc. tin	.....	.....	35,162	2,330	26,182
Misc. glass	.....	.....	.....	9,000	.....
Total	4,851,970	8,611,371	12,541,313	8,982,322	8,914,038

[1]Source: National Canners Association

HAMACHEK

IDEAL VINERS



Their use assures a larger profit for the canner because they thresh peas and lima beans more efficiently and permit the packer to get a pack of better quality

FRANK

HAMACHEK

MACHINE COMPANY

KEWAUNEE WISCONSIN

ESTABLISHED 1880 • INCORPORATED 1924

PEA AND BEAN HULLING SPECIALISTS

KEEPS *Slicers Slicing Steadily*

HOPPER FILLING IS ONLY LABOR REQUIRED

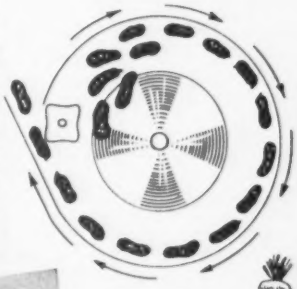
The Robins Speedmatic Pickle Feeder will be a profit-making addition to your pickle (or carrot) production line. Operation of your slicers will be uninterrupted . . . you can take advantage of their full capacity for slicing.

Designed to fit the Urschel Model O Slicer without adjustment; height is adjustable to fit other machines.

Keep the Robins Speedmatic Pickle Feeder filled by conveyor from your tanks or manually.

HOW THE ROBINS SPEEDMATIC OPERATES

As the circular disc rotates, it places a single row of pickles against the outside edge of the disc. Specially-designed kickout arrangement permits only one pickle to pass through the opening at a time without bruising. Adjustable to handle all sizes of pickles. One ½ H.P. Gear Motor drives entire machine. All contact parts of stainless steel.



SEE YOUR ROBINS REPRESENTATIVE OR WIRE OR WRITE DIRECT FOR DELIVERY INFORMATION AND PRICES

THE ROBINS SPEEDMATIC FEEDER WILL HANDLE CARROTS TOO!

A.K.Robins AND COMPANY, INC.

Manufacturers of Food Processing Machinery Since 1855

713-729 East Lombard St., Baltimore 2, Md.

Apple sauce—

Pack of recent years by states

State	1948-49 Actual cases	1949-50 Actual cases	1950-51 Actual cases	1951-52 Actual cases	1952-53 Actual cases
New York	1,533,909	2,645,056	3,982,650	3,414,715	2,858,829
Md., Pa. and Va.	2,921,861	4,684,196	6,702,151	4,203,073	4,161,710
Wash. and Ore. (b)	29,779	94,462	277,727	111,918	115,833
California	306,016	715,947	910,103	913,467	1,405,868
Other States	60,405	471,710	668,682	339,144	371,798
Total	4,851,970	8,611,371	12,541,313	8,982,322	8,914,038

(*b*) Includes Idaho pack.

Total United States Pack

Year	Actual cases
1929	903,991
1931	1,009,688
1933	1,730,103
1934	1,892,187
1935	1,887,256
1936	2,353,250
1937	3,161,001
1938	1,526,551
1939	3,056,909
1940	2,634,864
1941	4,182,428
1942	4,590,338
1943	2,225,880
1944	4,301,501
1945	1,984,107
1946	8,839,844
1947	6,083,602

Apples

Pack of recent years by states*

State	1948 Basis 6/10's	1949 Basis 6/10's	1950 Basis 6/10's	1951 Basis 6/10's	1952 Basis 6/10's
New York	481,586	1,164,797	1,154,396	996,145	704,126
Md., Pa. and Va.	986,728	2,382,839	3,133,694	2,036,286	1,556,446
Michigan	(*a*)	(*a*)	(*a*)	(*a*)	(a)
Wash. and Ore. (*b*)	199,848	371,611	774,731	251,479	220,634
Other States	19,280	293,915	201,861	104,339	79,119
Total	1,687,442	4,213,162	5,264,682	3,388,249	2,560,319

(*a*) Included in "Other States." (*b*) Includes Idaho pack.

*Most of pack reported on basis of 6/10's. Pack otherwise reported was converted to this size.

Total United States Pack

Year	Actual cases
1923	2,125,631
1925	3,467,176
1927	2,939,031
1929	3,592,551
1931	2,066,956
1933	2,554,312
1934	2,584,162
1935	2,331,581
1936	2,620,373
1937	2,672,328
1938	1,750,812
1939	2,840,694
1940	2,249,600
1941	4,348,404
1942	4,164,565
1943	1,878,413
1944	3,355,523
1945	1,191,812
	Basis 6/10's
1946	3,266,089
1947	2,241,533

Red pitted cherries

Pack of recent years by states

State	1948 Actual cases	1949 Actual cases	1950 Actual cases	1951 Actual cases	1952 Actual cases
N. Y. and Pa.	324,825	471,907	588,799	878,471	670,650
Ohio	30,701	36,942	73,305	73,227	66,539
Michigan	2,534,547	2,441,120	3,873,089	3,026,034	2,619,214
Wisconsin	534,289	347,681	369,198	403,174	342,427
Colorado	28,107	12,825	14,989	25,298	(*a*)
Utah and Idaho	47,593	38,759	23,735	95,760	75,565
Washington, Oregon	38,699	85,483	72,536	169,388	97,762
Other States	13,449	10,606	7,300	689	19,847
Total	3,552,210	3,445,323	5,022,951	4,672,041	3,892,004

(*a*) Included in "Other States."

Pack by size of container

Size	1948 Actual cases	1949 Actual cases	1950 Actual cases	1951 Actual cases	1952 Actual cases
No. 2	2,396,952	2,399,924	3,256,908	2,855,813	2,428,165
No. 303	14,308	35,268	93,366	123,545	375,462
No. 10	1,116,559	1,007,965	1,647,677	1,644,783	1,087,126
Miscellaneous	24,391	2,166	25,000	47,000	1,251
Total	3,552,210	3,445,323	5,022,951	4,672,041	3,892,004

Total United States Pack

Year	Actual cases
1929	1,123,855
1931	1,498,167
1933	1,725,419
1934	1,855,045
1935	2,562,683
1936	1,450,335
1937	2,471,982
1938	1,694,813
1939	3,154,721
1940	3,422,873
1941	2,064,475
1942	3,061,809
1943	561,778
1944	3,071,940
1945	1,326,450
1946	3,085,872
1947	2,396,834

Model TA has *What it Takes* to do TOUGH mixing

DESIGNED FOR EXTRA HEAVY MIXING

AGITATOR PARTS QUICKLY REMOVABLE FOR EASY CLEANING

GROEN
STAINLESS STEEL STEAM JACKETED
TWIN-SHAFT MIXER KETTLE

IT'S A RUGGED, SANITARY UNIT

• Stainless steel from top to bottom. Completely sanitary — conforms to the most rigid Health Dept. requirements. Twin shaft operation for highest efficiency in mixing. Fully enclosed motor drives two shafts: (1)—at slow speed operating Flexible Finger-Like scrapers; and (2)—a secondary high-speed shaft equipped with any of a variety of beaters, blenders or mixers.

• Demountable shaft couplings permit entire agitator assembly to be removed in a few seconds for easy cleaning, and as quickly reinstalled. Cannot disengage in operation. And couplings equal strength of a solid shaft. Read all about this widely famous mixer in Bulletin TAK-2. Write for it now.

ASK US ABOUT THE HIGH SPEED ROTA-THERM JACKET

Attains fastest cooking speed ever produced by any kettle! Multiple steam inlet design develops high velocity steam circulation instantly. No air pockets . . . no cool areas, possible. Gives all advantages of stainless steel plus swiftest operation. Ask for Bulletin RT-1.

GROEN MFG. CO.

4539 W. Armitage Ave., CHICAGO 39, ILL.

30 CHURCH ST. NEW YORK 7 — HALF A CENTURY OF FINE KETTLES — 7 FRONT STREET, SAN FRANCISCO 11

How To EXTEND Your Packing Season . . .

Full view of Barnes' Magnetic Retort Basket Unloader showing arrangement for unscrambling tin.

Close up of single filer attachment for use when packing in glass.

Close up of unscrambler portion for use when packing in tin.

By Using the Same Equipment to Pack In Tin or Glass

Here's a Barnes Magnetic Unloader which can be a cost saver to the canner interested in extending his packing season. It is designed so that a glass or tin unscrambler can be put into operation with a minimum of delay. Both fresh and dry packs, in tin *or* glass can be handled more efficiently than with conventional equipment. Call in a Barnes engineer for assistance in planning an extended packing season. There is no obligation.

FREE DATA on the equipment shown above or listed below is available upon request. Write today. Ask for bulletins F-1053.

W. F. & JOHN BARNES

W. F. and JOHN BARNES
PROCESS EQUIPMENT DIVISION 379 SOUTH WATER STREET, ROCKFORD, ILL.

NOTE: The W. F. and John Barnes Company, exclusive representatives of the James Dole Engineering Company, offer sales and service facilities for the Martin Asceptic Canning System, Centrifugal Deaerator and Straightline Filler.

Other BARNES Processing Equipment

Automatic Retort Basket Loaders and Unloaders
Packaged Can Unloaders
Glass Handling Machines
Special Conveyors
Tray Loader
Pallet Unloader
Carton Uncaser
Double Seamer

Peaches

Pack by size of container

Size	1948 Actual cases	1949 Actual cases	1950 Actual cases	1951 Actual cases	1952 Actual cases
No. 2½	12,564,139	13,066,173	12,025,351	15,970,990	12,961,633
8Z Short and Tall	599,843	1,024,512	862,131	1,289,571	1,130,020
No. 1 Tall	1,103,103	991,622	542,476	1,131,178	594,361
No. 303	989,508	1,517,779	1,058,576	1,960,664	3,529,741
No. 2	263,373	260,349	348,381	439,336	161,672
No. 10	2,009,519	3,079,586	2,480,924	3,703,363	3,139,354
Miscellaneous	520,255	478,648	397,999	41,156	80,125
Total	18,049,740	20,418,669	17,715,838	24,536,258	21,596,906

Pack of recent years by states

State	1948 Actual cases	1949 Actual cases	1950 Actual cases	1951 Actual cases	1952 Actual cases
New York	(a)	(a)	(a)	(a)	(a)
Michigan	228,849	287,643	388,846	22,998	402,157
Utah	43,212	3,100	(a)	(a)	10,222
Wash. and Oregon (b)	682,656	743,457	71,393	338,102	881,932
California	16,994,265	19,284,175	17,181,609	23,608,651	19,732,889
Other States	100,758	100,294	73,990	566,507	569,706
Total	18,049,740	20,418,669	17,715,838	24,536,258	21,596,906

(a) Included in "Other States." *(b)* Includes Idaho and Montana packs.

Total United States Pack

Year	Actual cases
1923	7,466,011
1924	6,331,363
1925	10,754,612
1926	14,482,447
1927	11,836,109
1928	14,975,436
1929	8,723,622
1930	13,803,452
1931	8,752,452
1932	6,633,404
1933	10,576,291
1934	8,936,335
1935	11,746,634
1936	11,182,600
1937	13,879,554
1938	10,400,358
1939	12,116,173
1940	11,463,883
1941	14,778,415
1942	16,726,040
1943	11,450,269
1944	14,035,228
1945	14,674,605
1946	20,755,420
1947	19,171,683

Pack statistics on selected frozen vegetables[1]

Corn, cut

Pack of recent years by region

Region	1950 Pounds	1951 Pounds	1952 Pounds
East and south	14,188,921	13,616,663	15,591,580
Midwest	4,943,159	6,339,033	12,258,028
West	13,865,652	24,592,814	34,834,028
Total	32,997,732	44,548,510	62,683,636

Pack of recent years by size of container

Size	1950 Pounds	1951 Pounds	1952 Pounds
10 ounce	11,142,171	14,209,204	21,656,973
Other retail sizes (under 1 lb.)	2,599,865	2,615,302	2,789,261
2½ pounds	4,039,235	5,270,411	11,600,848
4 and 5 pounds	2,834,560	4,852,330	2,759,730
Other small sizes (1-10 lbs.)	429,601	.....	.....
30 pounds	908,740	2,389,290	1,842,760
50 pounds	4,689,644	9,044,750	6,360,420
Other large sizes (over 10 lbs.)	6,353,916	6,167,223	15,673,644
Total	32,997,732	44,548,510	62,683,636

Total United States Pack

Year	Pounds
1942	9,369,276
1943	21,449,498
1944	20,982,900
1945	25,551,366
1946	42,426,691
1947	26,559,146
1948	20,919,820
1949	37,076,067

Corn-on-cob

Pack of recent years by region

Region	Pounds 1950	Pounds 1951	Pounds 1952
East and south	4,468,989	3,897,448	3,467,142
Midwest	1,517,642	1,269,249	2,575,660
West	4,082,355	3,605,274	8,153,219
Total	10,068,986	8,771,971	14,196,021

Total United States Pack

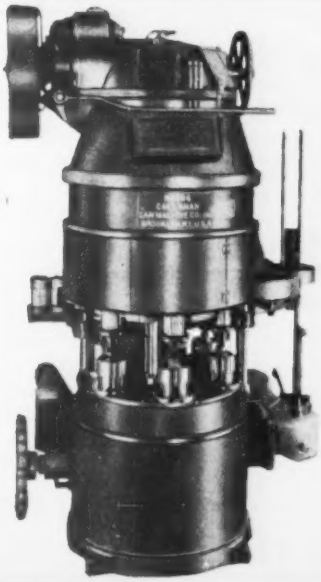
Year	Pounds
1942	1,766,843
1943	845,609
1944	605,790
1945	445,388
1946	2,295,656
1947	6,064,362
1948	10,323,649
1949	17,563,225

[1]Source: National Association of Frozen Food Packers

CALLAHAN

CAN CLOSING MACHINE

NO. 506



6 head full automatic round can seamer.
300 per minute with can shop feed shown.
Also supplied with cannery feed.
Can sizes 2" to 4-3/16" diameter, 2" to 8" high.
4 roll type chucks.
New design chuck guard has interesting features.
No can, no end device.
Entire head and end feed adjustable for can heights eliminating the necessity of changing heights of conveyors and tables.
Automatic lubrication to principal working parts.

SLITTERS
BODYMAKERS
FLANGERS
SEAMERS
STRIP FEED PRESSES
CURLERS AND STACKERS
SCROLL SHEARS
BLANKING PRESSES

Specialists In Can Making Machinery

Callahan Can Machine Co., Inc.
80 Richards Street **Brooklyn 31, N. Y.**

SPEAS

APPLE PRODUCTS
the Standard of Quality
for sixty years

NUTRL-JEL
for preserves, jams, jellies, marmalades

CONFECTO-JEL
for jelled candies

Powdered *Apple* Pectin
for PRESERVERS

CONCENTRATED APPLE JUICE

Plants in Apple Regions From the Atlantic to the Pacific

SPEAS COMPANY, General Offices, Kansas City 1, Missouri

Peas

Pack of recent years by region

Region	1950 Pounds	1951 Pounds	1952 Pounds
East and south	38,479,218	46,914,573	32,238,088
Midwest	11,613,318	14,479,282	15,512,985
West	102,182,669	134,146,758	155,974,827
Total	152,275,205	195,540,613	203,725,900

Pack of recent years by size of container

Size	1950 Pounds	1951 Pounds	1952 Pounds
10 ounce	723,810	17,900,876	74,111,380
12 ounce	89,597,848	101,445,303	41,202,862
Other retail sides (1 lb. and under)	.....	685,320	293,387
2½ pounds	23,310,506	27,060,277	33,334,296
4 and 5 pounds	8,715,797	11,371,747	7,152,845
Other small sizes (10 lbs. and under)	279,820	398,607	1,628,014
30 pounds	10,147,641	7,927,835	5,270,613
50 pounds	13,876,574	16,531,935	22,342,460
Other large sizes (over 10 lbs.)	5,623,839	12,218,713	18,390,043
Total	152,275,205	195,540,613	203,725,900

Total United States Pack

Year	Pounds
1942	59,077,163
1943	70,310,152
1944	79,152,398
1945	103,833,553
1946	140,602,919
1947	131,785,783
1948	118,976,557
1949	113,273,030

Summary of recent frozen vegetable packs

Pack of recent years by product

Product	1950 Pounds	1951 Pounds	1952 Pounds
Asparagus	22,309,199	23,561,803	25,460,043
Beans, green and wax	65,528,814	81,650,454	87,438,169
Beans, lima	85,988,185	108,020,229	113,926,153
Broccoli	41,027,964	48,767,804	82,253,181
Brussels sprouts	22,439,115	22,475,732	22,454,197
Carrots	13,338,058	10,572,945	22,269,107
Cauliflower	12,338,938	22,427,692	33,165,757
Corn, cut	32,997,732	44,548,510	62,683,636
Corn-on-cob	10,068,986	8,771,971	14,196,021
Mixed vegetables	15,241,162	26,088,444	26,471,606
Peas	152,275,205	195,540,613	203,725,900
Peas and carrots	11,335,290	12,946,615	18,033,334
Pumpkin and squash	8,324,534	12,723,211	15,068,076
Rhubarb	6,164,218	5,803,090	5,684,418
Spinach	52,805,971	97,878,104	91,463,973
Succotash	6,659,419	11,913,174	11,768,828
Miscellaneous vegetables	28,258,563	36,347,920	59,656,172
Total	587,101,353	770,038,311	895,718,571

Total United States Pack

Year	Pounds
1942	152,512,470
1943	207,871,993
1944	237,092,417
1945	307,977,360
1946	450,000,203
1947	346,208,097
1948	446,357,533
1949	563,498,997

Pack of recent years by region

Region	1950 Pounds	1951 Pounds	1952 Pounds
East and south	221,038,944	280,005,191	297,807,530
Midwest	38,738,769	45,909,352	55,724,594
West	327,323,640	444,123,768	542,186,447
Total	587,101,353	770,038,311	895,718,571

Pack of recent years by size of container

Size	1950 Pounds	1951 Pounds	1952 Pounds
10 ounce	146,776,192	241,814,527	360,139,378
12 ounce	176,031,252	170,322,519	91,668,414
Other retail sizes (1 lb. and under)	66,808,145	115,298,683	143,226,015
2½ pounds	68,831,497	86,379,393	111,058,724
4 and 5 pounds	23,097,276	27,499,430	21,323,214
Other small sizes (10 lbs. and under)	28,802,767	34,118,236	45,337,069
30 pounds	15,298,777	17,818,958	11,261,566
50 pounds	32,406,846	39,923,151	57,156,273
Other large sizes (over 10 lbs.)	29,048,601	36,863,414	54,547,918
Total	587,101,353	770,038,311	895,718,571

for ALL FOOD PRODUCTS
BERLIN CHAPMAN PROCESSING MACHINERY

SINCE 1909

COOK ROOM EQUIPMENT
- RETORTS • PERFORATED CRATES • HOISTS
- CONTINUOUS COOKERS AND COOLERS

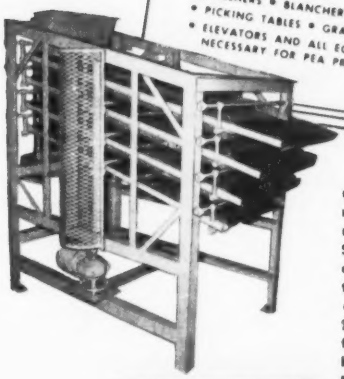
HIGH SPEED JUICE EQUIPMENT
- JUICE EXTRACTORS • JUICE TANKS
- COILS • EXHAUST BOXES

TOMATO PROCESSING EQUIPMENT
- SOAK TANKS • ROTARY WASHERS
- SCALDERS • ROLLER INSPECTION TABLES
- PEELING TABLES
- SCREW TYPE EXTRACTORS
- HEATING TANKS AND COILS
- TUBULAR HEATERS AND SPECIAL MACHINERY NECESSARY FOR TOMATO PROCESSING

CORN PROCESSING EQUIPMENT
- CORN SILKERS (HIGH SPEED)
- CORN MIXERS
- DOUBLE BATCH CORN MIXERS AND OTHER EQUIPMENT NECESSARY FOR CORN PROCESSING

PEA PROCESSING EQUIPMENT
- WASHERS • BLANCHERS • SEPARATORS
- PICKING TABLES • GRADERS • REGRADERS
- ELEVATORS AND ALL EQUIPMENT NECESSARY FOR PEA PROCESSING

Into the designing and manufacture of Berlin Chapman machinery for the food processing industries is the experience of nearly half a century, experience in making production equipment that is reflected in high quality products.



SHAKER GRADER

A compact, high capacity unit that will furnish accuracy of grade at a minimum of space and cost. Simplicity of construction and size make it possible to properly wash and clean up after each day's run. Screens can be changed in five to ten minutes without having to lift them over. Now being used to grade peas, lima beans, sliced beets and other vegetables. Ask for complete details today.

BELT CONVEYOR

Made with hinged stainless steel guard rails, all molded edges, rubber belt . . . can be custom built to handle bulk flow with sweep-off to fit into your plant set up . . . can be furnished in any length, width or height . . . complete with gear head motor drive to simplify maintenance and installation problems.

Consult our engineering department for recommendations on your plant set up at any time.

Send us your specifications for your plant requirements, capacity needed, etc.

WRITE! for complete catalog on full line of equipment.

BERLIN CHAPMAN CO.
BERLIN • WISCONSIN

Have you investigated . . .

VACUUM COOKING *plus* AGITATION

Once again Hamilton engineering and design solves a tough one. Now available, a vacuum kettle with a completely sealed in stainless steel agitator. Here's the answer to speedier, lower cost, production with an additional guarantee of "product goodness" thru efficient agitation.

Steam jacketed, stainless steel, 100 to 500 gallon capacities, made to conform to ASME code for working pressures to 100 or 125 psi, it is complete with vacuum condenser, motor driven pump, vacuum gauge and vacuum breaker. Manhole has glass viewer, equipped for interior lighting. Sampling connection is provided for use without disturbing the vacuum.

HAMILTON COPPER & BRASS WORKS.
820 State Ave., Cincinnati 4, Ohio
Please send complete information on Hamilton Vacuum Kettles. Dept. B
NAME _____
ADDRESS _____
COMPANY _____

BRIGHTON

Hamilton copper and brass works
Division of the Brighton Copper Works, Inc. • 820 State Ave., Cincinnati, Ohio

Pack statistics on selected frozen fruits[1]

Red tart cherries

Pack of recent years by region

Region	1950 Pounds	1951 Pounds	1952 Pounds
Northeast**	40,987,110	47,458,084	28,427,175
Midwest	57,734,025	43,124,681	30,893,475
West	5,737,490	8,698,908	2,546,127
Total	104,458,625	99,281,673	61,866,777

**Includes production in Maryland and West Virginia.

Pack of recent years by size of container

Size	1950 Pounds	1951 Pounds	1952 Pounds
Retail Size (20 oz. & under)	806,971	1,188,825	*2,893,216
30 pounds	100,504,672	94,418,681	57,275,480
Other misc. sizes	2,955,582	2,601,122	873,249
Barrels	191,400	1,073,045	824,832
Total	104,458,625	99,281,673	61,886,777

*Mostly No. 2 cans.

Total United States Pack

Year	Pounds
1942	41,819,884
1943	23,005,362
1944	55,058,949
1945	16,143,827
1946	88,061,401
1947	67,001,731
1948	87,797,699
1949	70,988,702

Peaches

Pack of recent years by region

Region	1950 Pounds	1951 Pounds	1952 Pounds
Northeast	3,368,945	4,189,734	3,406,346
South	1,173,083	3,545,473	3,807,476
Midwest	5,821,902	1,970,018	5,680,501
West	15,426,662	22,674,925	22,560,067
Total	25,790,592	32,380,150	35,454,390

Pack of recent years by size of container

Size	1950 Pounds	1951 Pounds	1952 Pounds
Under 1 pound	3,060,929	8,773,854	11,429,950
1 pound	2,256,181	3,627,499	1,038,964
Small sizes (10 lbs. and under)	3,509,672	3,617,779	5,573,939
30 pounds	16,492,328	16,200,468	17,374,787
Large sizes (over 10 lbs.)*	471,482	160,550	36,750
Total	25,790,592	32,380,150	35,454,390

*Includes barrels.

Total United States Pack

Year	Pounds
1942	13,801,217
1943	17,008,527
1944	45,562,689
1945	103,634,388
1946	65,140,192
1947	27,034,119
1948	13,598,338
1949	23,234,608

Strawberries

Pack of recent years by region

Region	1950 Pounds	1951 Pounds	1952 Pounds
Northeast	11,184,856	7,676,953	7,778,152
South	54,834,488	42,455,696	34,813,593
Midwest	18,573,852	15,582,962	11,273,034
West	108,138,651	92,013,063	146,437,060
Total	192,731,847	157,728,674	200,301,839

Pack of recent years by size of container

Size	1950 Pounds	1951 Pounds	1952 Pounds
Under 1 pound	47,680,813	50,481,569	80,091,106
1 pound	28,509,698	17,639,290	16,487,257
Small sizes (10 lbs. and under)	10,023,900	4,014,612	11,382,247
30 pounds	81,732,451	67,021,640	69,203,657
Other large sizes (over 10 lbs.)	8,396,821	5,337,948	3,965,417
Barrels	16,388,164	13,233,615	19,172,155
Total	192,731,847	157,728,674	200,301,839

Total United States Pack

Year	Pounds
1942	63,776,203
1943	29,828,978
1944	34,825,459
1945	36,916,743
1956	78,059,148
1947	109,035,621
1948	160,077,403
1949	107,599,757

[1]Source: National Association of Frozen Food Packers

there's a
DIVERSEY
equipment cleaner
that's
best for YOU!

DITRAN ®

A unique new high-sudsing, non-dusting cleaner. Ditran is highly recommended for the cleaning of all equipment (including aluminum and white metal) in dairy and food processing plants.

DIVOLUXE ®

Exceptionally effective in moderately hard water. Cleans quickly, effectively and does not stain aluminum, white metal or monel metal.

DIFLEX ®

Handles the extra-tough cleaning jobs even in the hardest water with ease. "Melts away" stubborn contamination. Completely softens water and leaves equipment bright and film-free.

D-LUXE ®

High sudsing, free-draining, free rinsing—assures a film free, completely clean surface. Economical D-Luxe is safe to use on tinned and stainless steel surfaces.

Call your DIVERSEY D-MAN for details
THE DIVERSEY CORPORATION
1820 Roscoe St. • Chicago 13, Ill.
IN CANADA: The Diversey Corporation (Canada) Ltd., Port Credit, Ont.

GAIR
SHIPPING
CONTAINERS

Gair Corrugated Containers are so scientifically constructed that they offer the utmost PROTECTION against the many hazards of shipping . . . truly amazing how they withstand tremendous knocking about and rough usage.

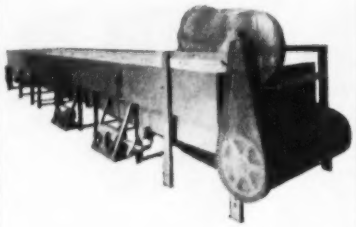
Without obligation Robert Gair offers a helping hand in solving shipping container problems.

WRITE TODAY for technical information.

GAIR | SHIPPING CONTAINERS
FOLDING CARTONS
PAPERBOARD

ROBERT GAIR COMPANY, INC.
155 E. 44th ST., NEW YORK • TORONTO

BRIDGE STRAIGHT LINE JAR COOLER



DESIGNERS AND MANUFACTURERS OF PROCESSING EQUIPMENT FOR FREEZERS AND CANNERS

West Coast Representative

L. H. BUTCHER CO.

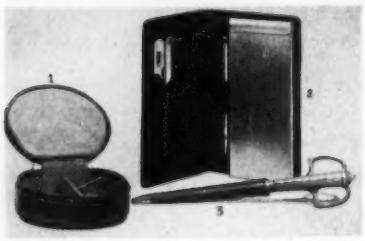
San Francisco, Oakland
Los Angeles, Salt Lake City
Portland, Seattle

BRIDGE FOOD MACHINERY CO.

S.W. Cor. National & James Sts.
Philadelphia 35, Pa.

NOW . . . buy direct!

GIFTS OF CHARM
Useful and Lasting
. . . at JOBBER PRICES



#1—Men's Stud Box—Gift in which they can keep their studs, collar stays, cuff links, buttons, jewelry, etc. Genuine leather, suedine lined and saddle stitched. **Price $2.00 each**

#2—Men's Pocket Secretary—Fitted with gold plated mounted comb and file, mechanical pencil and pad, gold color cover to match. Genuine Morocco grain leather. Black or Brown. **Price $3.00 each**

#3—Imported Library Set—For home or office. Consists of forged steel scissors and letter opener. Genuine leather case. **Price $2.75 each**

FREE! 3 line imprint 24K gold.

Prices based on quantities of 50 or more. Information on other items furnished upon request.

CHARM PRODUCTS MFG. CORP.

225 Lafayette St. N.Y. 12, N.Y.
CAnal 6-8089

Plant Food Requirements of Certain Vegetable And Fruit Crops[1]

Crop	Acre yield	Pounds of plant food removed: Nitrogen	Phosphoric acid	Potash
Beans, lima	1 ton	55	12	26
Forage	4 tons	40	12	87
TOTAL		95	24	113
Beans, snap	2 tons	148	5	10
Forage	8 tons	48	2	45
TOTAL		196	7	55
Peas	2 tons	46	5	6
Forage	12 tons	60	9	50
TOTAL		106	14	56
Peas, Blackeye	2 tons	40	8	18
Forage	10 tons	50	10[2]	140
TOTAL		90	18	158
Peppers	2 tons	6	10	6
Plant	3 tons	18	17	13
TOTAL		24	27	19
Tomatoes	15 tons	93	24	130
Plant	3600 pounds	68	27	166
TOTAL		161	51	296
Asparagus	2 tons	16	4	10
Beets, Roots	10 tons	50	9	33
Tops	14 tons	10	9	59
TOTAL		60	18	92
Carrots, Roots	20 tons	92	28	84
Tops	10 tons	100	10	200
TOTAL		192	38	284
Onions	10 tons	46	11	30
Tops	5 tons	30	6	55
TOTAL		76	17	85
Okra, Pods	5 tons	13	5	38
Forage	6½ tons	8	5	24
TOTAL		21	10	62
Parsnips, Roots	10 tons	44	16	37
Tops	5 tons	42	15	11
TOTAL		86	31	48
Pumpkins	10 tons	32	8	40
Turnips, Roots	10 tons	50	16	55
Tops	10 tons	80	9	36
TOTAL		130	25	91
Turnips, Rutabaga	10 tons	40	11	34
Forage	12 tons	60[2]	19	65
TOTAL		120	30	99
Potatoes, Tubers	400 bu	80	11	120
Tops	10 tons	120	7	140
TOTAL		200	18	260
Potatoes, Sweet	10 tons	5	5	24
Apples	400 bu	20	7	30
Leaves & Wood		10	3	5
TOTAL		30	10	35
Peaches	500 bu	30	15	55
Leaves & Wood		55	10	45
TOTAL		85	25	100
Grapes	4 tons	10	6	20
Leaves & Canes		15	4	15
TOTAL		25	10	35
Oranges	600 boxes	65	23	105
Leaves & Wood		25	7	25
TOTAL		90	30	130

[1]Because of soil fixation (soil tie up) much larger quantities of plant food, especially phosphoric acid and potash, must be applied to deficient soils than that removed by the crop.

[2]Estimate based on similar crops.

Source: Research Mimeograph 3, 1949, Campbell Soup Company, and Reprint F3-40 from BETTER CROPS WITH PLANT FOOD, American Potash Institute, information furnished by National Fertilizer Association, Inc.

Average Nitrogen, Available Phosphoric Acid, And Potash Content of Some Commonly Used Fertilizer Materials

Fertilizer material	Total nitrogen	Available phosphoric acid	Water-soluble potash
	(percent)	*(percent)*	*(percent)*
Ammonium nitrate	33.0	—	—
Ammonium phosphates	16.0-11.0	20.0-48.0	—
Ammonium sulfate	20.5	—	—
Anhydrous ammonia	82.2	—	—
Aqua ammonia	24.6	—	—
Calcium nitrate	15.5	—	—
Calnitro	20.5	—	—
Cyanamid	22.0	—	—
Liquid phosphoric acid	—	52.0	—
Muriate of potash	—	—	50.0-62.0
Nitrogen fertilizer solutions	37.0-49.0	—	—
Nitrate of soda	16.0	—	—
Sulfate of potash	—	—	48.0-52.0
Sulfate of potash-magnesia	—	—	22.0
Superphosphate (normal)	—	18.0-20.0	—
Superphosphate (concentrated)	—	40.0-48.0	—
Urea	42.0-45.0	—	—

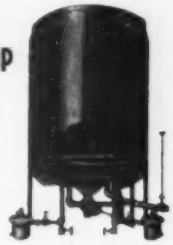
Source: National Fertilizer Association, Inc.

Name and location of the state agricultural experiment stations in the United States and its territories:

Alabama Agricultural Experiment Station	Auburn
Alaska Agricultural Experiment Station	College
Arizona Agricultural Experiment Station	Tucson
Arkansas Agricultural Experiment Station	Fayetteville
California Agricultural Experiment Station	Berkeley
California Agricultural Experiment Station	Davis
California Agricultural Experiment Station	Los Angeles
California Agricultural Experiment Station	Riverside
Colorado Agricultural Experiment Station	Fort Collins
Connecticut Agricultural Experiment Station	New Haven
Storrs Agricultural Experiment Station	Storrs, Conn.
Delaware Agricultural Experiment Station	Newark
Florida Agricultural Experiment Station	Gainesville
Georgia Agricultural Experiment Station	Experiment
University of Georgia Experiment Station	Athens
Georgia Coastal Plain Experiment Station	Tifton
Hawaii Agricultural Experiment Station	Honolulu
Idaho Agricultural Experiment Station	Moscow
Illinois Agricultural Experiment Station	Urbana
Indiana Agricultural Experiment Station	Lafayette
Iowa Agricultural Experiment Station	Ames
Kansas Agricultural Experiment Station	Manhattan

(Continued on page 99)

LANGSENKAMP
Stainless Steel
Cooking Units
Give You . . .



. . . QUICKER HEATING

Exclusive "Kook-More-Koils" feature Divided Header for rapid circulation of steam and instant drainage of condensate. You get real cooking efficiency . . . greater evaporating capacity with less steam pressure.

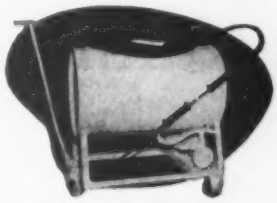
. . . POSITIVE CONTROL

3-Way Valve, another Langsenkamp exclusive, provides positive **one-point** control for opening, draining and sealing of tank.

. . . GREATER CAPACITY

Deep dished bottom increases production capacity three to five gallons per batch! Tank drains faster, cleans easier.

F. H. LANGSENKAMP CO.
227 East South Street
INDIANAPOLIS 25 INDIANA



YOURS
for faster cleaning!

THE OAKITE HOT-SPRAY Cleaning Unit makes wizards out of unskilled help. Provides quick pressure, powerful cleaning spray. Wheel it around the plant to clean up greasy floors, equipment. Wash walls, woodwork, ceilings. Strip paint. Send for descriptive literature. Oakite Products, Inc. 44F Rector St., N. Y. 6, N. Y.

SPECIALIZED INDUSTRIAL CLEANING
OAKITE
MATERIALS • METHODS • SERVICE

Technical Service Representatives Located in Principal Cities of United States and Canada

TRI-STATE DIRECTORY

The supply of 1953 Tri-State Directories became very limited within a month after its publication and it seems inevitable that it will be exhausted in a short time. Those who have not sent for the 1953 issue would do well to get their orders in quickly. Orders will be filled on a first come —first served basis as long as the Directories last.

TRI-STATE
PACKERS' ASSOC., INC.
Easton, Maryland

UNITED STATES STANDARDS FOR GRADES OF PROCESSED FRUITS AND VEGETABLES

(Canned, dried, and frozen)

(As of August 31, 1953)

Canned	Effective
Apples	Nov. 1, 1943
Apple butter	Oct. 1, 1945
Apple juice	June 26, 1950
Applesauce	Sept. 18, 1950
Apricots	June 15, 1945
Asparagus	May 1, 1945
Beans, dried	Oct. 24, 1947
Beans, green and wax	Mar. 2, 1953
Beans, lima	July 21, 1953
Beets	Nov. 2, 1951
Blackberries and other similar berries (such as boysenberries, dewberries, and loganberries)	June 29, 1953
Blueberries	Mar. 20, 1951
Carrots	Mar. 30, 1953
Cherries, red sour pitted	June 23, 1949
Cherries, sulfured	June 12, 1951
Cherries, sweet	May 15, 1953
Corn, cream style	July 27, 1953
Corn, whole kernel	July 30, 1952
Cranberry Sauce	Mar. 19, 1951
Figs, kadota	Nov. 15, 1945
Fruit cocktail	Aug. 17, 1953
Fruit jelly	Jan. 2, 1948
Fruit preserves (or jams)	Jan. 23, 1953
Fruits for salad	April 1, 1942
Grapefruit	Nov. 25, 1952
Grapefruit juice	July 29, 1949
Grapefruit juice, concentrated	Nov. 15, 1945
Grapefruit and orange juice, blended	July 29, 1949
Grapefruit and orange for salad	Aug. 7, 1950
Grape juice	May 14, 1951
Honey, comb	1933
Honey, extracted	April 16, 1951
Lemon juice	July 1, 1941
Maple sirup for reprocessing	Feb. 15, 1940
Maple sirup, table	Feb. 15, 1940
Marmalade, orange	June 22, 1951
Molasses, sugarcane	Aug. 11, 1952
Mushrooms	Jan. 19, 1953
Okra	Oct. 18, 1933
Olive oil	Mar. 22, 1948
Olives, green	June 1, 1946
Olives, ripe	Mar. 1, 1941
Olives, salt-cured	Nov. 25, 1940
Olives, sicilian style	Nov. 25, 1940
Orange juice	July 29, 1949
Orange juice, concentrated	Aug. 16, 1943 (Amended Nov. 1, 1944)
Peaches, freestone	July 1, 1942
Peaches, yellow clingstone	July 1, 1942
Peanut butter	Sept. 1, 1942
Pears	Dec. 1, 1951
Peas	May 1, 1942 (Amended May 21, 1945) (Supplement May 21, 1945)
Peas, field and black-eye	Apr. 17, 1950
Pickles, cucumber	Aug. 23, 1948
Pimientos	Oct. 6, 1933
Pineapple	June 27, 1950
Pineapple juice	Feb. 17, 1950
Plums	Aug. 19, 1952
Potatoes, white	Feb. 10, 1950
Prunes, canned dried	Mar. 1, 1946
Pumpkin (squash)	Mar. 15, 1934
Raspberries, red	May 15, 1940
Sauerkraut	Feb. 8, 1933
Sauerkraut, bulk	May 27, 1935
Sirup, refiners'	Jan. 5, 1952
Sirup, sugarcane	July 20, 1951
Spinach	May 12, 1950
Succotash	Mar. 15, 1944
Sweetpotatoes	July 9, 1951
Tangerine juice	July 29, 1949
Tomatoes	Aug. 1, 1946
Tomato catsup	Aug. 31, 1953
Tomato juice	Aug. 29, 1938
Tomato paste	Sept. 15, 1944
Tomato pulp	Jan. 1, 1945

Dried

Apples	Nov. 1, 1943
Apricots	June 1, 1945
Currants	Oct. 20, 1952
Dates	Oct. 20, 1949
Figs	Aug. 29, 1949
Peaches	June 30, 1945
Pears	June 30, 1945

Canners Directory

1953

LIST OF THE CANNERS OF THE UNITED STATES

Compiled by NATIONAL CANNERS ASSOCIATION from authoritative sources.

Gives location of firms, their plants, and products packed in each. Full commodity index. Membership in N.C.A. indicated.

Also lists members of the National Food Brokers and Canning Machinery and Supplies Associations.

Sold to the trade at $2.50 per copy, postage prepaid. Personal Checks Accepted

Address all orders to the

NATIONAL CANNERS ASSOCIATION

1133 20TH ST., N. W. • WASHINGTON 6, D.C.

(Continued from page 97)

Kentucky Agricultural Experiment Station	Lexington
Louisiana Agricultural Experiment Station	Baton Rouge
Maine Agricultural Experiment Station	Orono
Maryland Agricultural Experiment Station	College Park
Massachusetts Agricultural Experiment Station	Amherst
Michigan Agricultural Experiment Station	East Lansing
Minnesota Agricultural Experiment Station	St. Paul
Mississippi Agricultural Experiment Station	State College
Missouri Agricultural Experiment Station	Columbia
Montana Agricultural Experiment Station	Bozeman
Nebraska Agricultural Experiment Station	Lincoln
Nevada Agricultural Experiment Station	Reno
New Hampshire Agricultural Experiment Station	Durham
New Jersey Agricultural Experiment Station	New Brunswick
New Mexico Agricultural Experiment Station	State College
Cornell Agricultural Experiment Station	Ithaca, N. Y.
New York Agricultural Experiment Station	Geneva
North Carolina Agricultural Experiment Station	Raleigh
North Dakota Agricultural Experiment Station	Fargo
Ohio Agricultural Experiment Station	Wooster
Oklahoma Agricultural Experiment Station	Stillwater
Oregon Agricultural Experiment Station	Corvallis
Pennsylvania Agricultural Experiment Station	State College
Puerto Rico Agricultural Experiment Station	Rio Piedras
Rhode Island Agricultural Experiment Station	Kingston
South Carolina Agricultural Experiment Station	Clemson
South Dakota Agricultural Experiment Station	Brookings
Tennessee Agricultural Experiment Station	Knoxville
Texas Agricultural Experiment Station	College Station
Utah Agricultural Experiment Station	Logan
Vermont Agricultural Experiment Station	Burlington
Virginia Agricultural Experiment Station	Blacksburg
Virginia Truck Experiment Station	Norfolk
Washington Agricultural Experiment Station	Pullman
West Virginia Agricultural Experiment Station	Morgantown
Wisconsin Agricultural Experiment Station	Madison
Wyoming Agricultural Experiment Station	Laramie

Classified advertising

Count 5 average words per line. Rate 65 cents per line. Minimum charge $2.50. Cash with order, no discount allowed.

When answering "blind" advertisements address box and number shown care of THE FOOD PACKER 139 N. Clark St., Chicago 2, Ill.

Help Wanted

WANTED—Pickle man to take complete charge. One who understands pickles from raw to finished product, and can handle help. A good opportunity for one who qualifies. State age, experience and salary expected. All replies strictly confidential. Write Box 36, Food Packer.

For Sale—Machinery & Equipment

FOR SALE: 1—Pneumatic Scale Packaging Line; 4—Mojonnier S/S Vacuum Pans, 3', 4', 5', 6'; 1—Std. Knapp self-adjusting Carton Sealer; 1—No. 2 Sweetland Filter, 23 copper leaves, 1½" c.c; 1—Star 20-disc chrome plated Filter, pump, motor; 1—400 gal. jack. closed Nickel Kettle with condenser and pump; 1—Patterson S/S 110 gal. Vacuum Mixer, sigma blades. Only a partial list.
CONSOLIDATED PRODUCTS CO., INC., 17-20 Park Row, N. Y. 38, N. Y. BArclay 7-0600. We buy your Idle Equipment.

FOR SALE

Used Canning and Frozen Food Machinery Write for complete list, also Plant Engineering Service. Forty-one years experience.
Mr. V. J. Snyder, Otto W. Cuyler Co., Inc. Webster, N. Y. Phone Webster 370-371.

FOR SALE: 4-Peters Automatic Carton & Liner Feeding machines, Type AC, speed 60 per minute; 4-Peters Carton Forming machines, Type ACE, speed 60 per minute; 1-Peters Carton Folding & Closing machine, Type DWY, speed 60 per minute; 1-Hayssen Carton Wrapping machine, Model 711, speed 35 per minute. GROCERY STORE PRODUCTS CO., Libertyville, Illinois.

FOR SALE

Standard-Knapp Dumper and unscrambler for No. 303 and/or No. 2 cans. Excellent condition. Reasonable.
Princeville Canning Company, Princeville, Illinois.

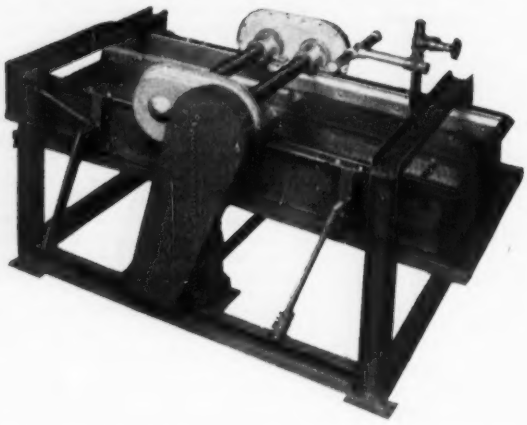
For Sale

1—Sutton, Steele & Steele Specific Gravity Separator—Purchased in 1939—In good condition.
1—Sutton, Steele & Steele Stoner—Model S-716—Purchased in 1946—In good condition.
Write Box 37, Food Packer.

CANNERS! FREEZERS!

Reduce Commodity Damage
Remove More Water
With the . . .

SCOTT VIBRO-LUX



If you are experiencing excessive damage in removing water from delicate fruits and vegetables, the Scott Vibro-Lux can help you lick this costly problem. Here is a vibrator-separator that surpasses in performance the reel type separator in removing water from commodities. In instances where dryness is a vital factor (such as ahead of freezing units), Vibro-Lux is doing an outstanding job for scores of leading packers.

With controlled vibratory action up to 1,000 times a minute, Vibro-Lux removes practically all water, rinses and removes most splits and skins from the commodity in one operation. This action spreads the commodity evenly over a 20" width making grading easier and faster at the inspection table. A special divider attachment allows two types or sizes of product to be processed simultaneously.

24" feed height and 16½" discharge height make it adaptable to your existing equipment.

Vibro-Lux, which comes complete with drain pan and sprays, is available in three sizes. Also available with all stainless steel contact parts.

SEND FOR THIS NEW CATALOG TODAY

This leatherette-ring binder, containing all Scott Viner canning equipment catalogs, covers information on: Hydraulic Elevators, Drum Screens, Vibrating Screens, Supply Tanks, Viners and Viner Equipment, Red Beet and Carrot Combines, Tubular Blanchers and Washers.

THE SCOTT VINER COMPANY
1224 Kinnear Road Columbus, Ohio

ADVERTISERS' INDEX

American Can Company 15
Angelus Sanitary Can Machine Company 81
Armstrong Cork Company (Glass and Closure Division) 72-73
Associated Seed Growers, Inc. ..... Outside Back Cover

Ball Bros. Co. ..... Inside Back Cover
Barnes Co., W. F. & John 89
Berlin Chapman Company 93
Bliss Company, E. W. 8
Bridge Food Machinery Company 96
Burt Machine Company 81

Callahan Can Machine Company 91
Campbell's Book 68
Canner's Exchange Subscribers 10
Charm Products Mfg. Corp. 96
Chisholm-Ryder Co., Inc. 83
Continental Can Company 20
Corn Products Sales Co. 18
Crown Can Company 57

Diversey Corp., The 95
Dodge & Olcott, Inc. 82

Food Machinery and Chemical Corp. (Canning Machinery Division) ..... Inside Front Cover
Foxboro Co., The 19
Gair Co., Inc., Robert 95
Griffith Laboratories, Inc. 77
Groen Mfg. Co. 89

Hamachek Machine Co., Frank 87
Hamilton Copper & Brass Works 93
Hazel-Atlas Glass Co. 4
Heekin Can Company 3
H. D. Hume Co. 84

International Salt Co. 61

Langsenkamp Co., F. H. 97
Lee Metal Products Co. 59

Macbeth Daylighting Corp. 71
Magnus, Mabee & Reynard, Inc. 12
Morton Salt Company 17

National Can Corporation 11
National Canners Association 98
Northrup, King & Co. 65

Oakite Products, Inc. 97
Owens-Illinois Glass Co. 6-7

Pfizer & Co., Chas. 9

Robins & Co., Inc., A. K. 87

Scott Viner Company, The 100
Speas Company 91
Standard-Knapp Corp. 75
Stange Co., Wm. J. 67
Swift & Co. 13

Tri-State Packers' Assoc. 98
Tygart Valley Glass Co. 16

Urschel Laboratories, Inc. 14
U. S. Rubber Co. 85

Waukesha Foundry Co. 79
Woodruff & Sons, F. H. 63

GETTING A HEAD START ON QUALITY!

Mold-Making Skill is a Tradition with BALL

Precision devices constantly test the quality and uniformity of Ball Glass Containers at every stage of manufacture. But in producing the molds which shape your containers, human skill and experience are vital. Ball Brothers take pride in the craftsmanship and know-how of their mold makers, carrying on a tradition of excellence that has made Ball the best known name in glass.

Call Ball first of all for:

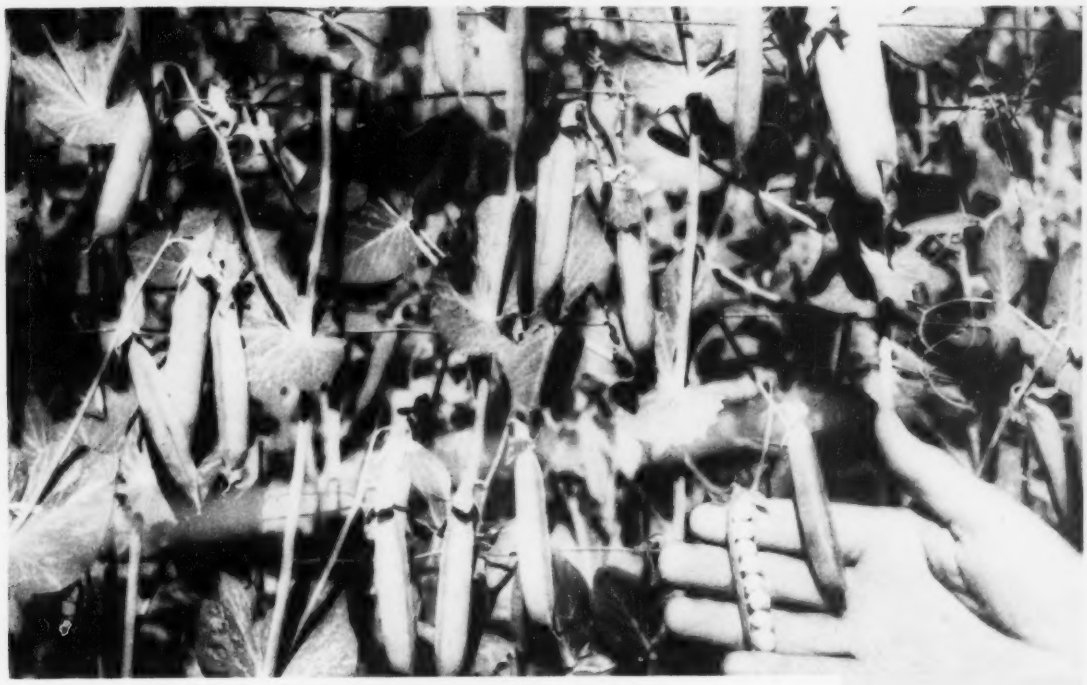
Stock or Special Mold Glass Containers...
Plain or Lithographed Metal Screw Caps.

BALL BROTHERS COMPANY • MUNCIE, INDIANA

Closure Division: The ARIDOR Company, 3428 W. 48th Place, Chicago 32, Ill.

Offices in All Principal Cities

CALL Ball FOR CONTAINERS, CLOSURES AND PACKAGING ENGINEERING SERVICE



LOLO

a double-podded Surprise type
developed in the Asgrow breeding program

Asgrow

More vigorous and productive than the single-podded Surprise, and fully resistant to Fusarium wilt. Being a few days later, Lolo prolongs the pack of small sieve, high quality, early sweet peas.

Seed available now for shipment on instructions

ASSOCIATED SEED GROWERS, Inc.

Breeders and growers of vegetable seeds since 1856

Main Office: New Haven 2, Conn.

Atlanta 2 • Cambridge, N.Y. • Exmore, Va. • Indianapolis 25
Memphis 2 • Milford, Conn. • Oakland 4 • Salinas • San Antonio 6